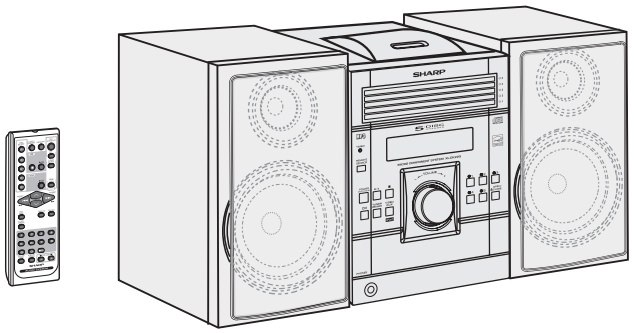
SHARP SERVICE MANUAL

No. S7734XLDK225/



MICRO COMPONENT SYSTEM

MODEL XL-DK225

XL-DK225 Micro Component System consisting of XL-DK225 (main unit) and CP-DK225 (speaker system).

- In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

Made for iPod

MP3

Plays Windows Media™

COMPACT disc DIGITAL AUDIO

CD-R/RW Playable

5-DISC CHANGER

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PARTS GUIDE

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN, POWER, SPEAKER, TRANSIT iPOD, DISPLAY, HEADPHONE, RE-FLASH, VOLUME LED, iPOD, CD MP3 PWB" of this model employs lead-free solder.
The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, were commend you to use a dedicated soldring bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.
Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	92LPWB6895MANS	MAIN (A1), POWER (A2), SPEAKER (A3), TRANSIT iPOD (A4)
PWB-B	92LPWB6894DPLS	DISPLAY (B1), HEADPHONE (B2), RE-FLASH (B3), VOLUME LED (B4)
PWB-C	92LPWB6894PODS	iPOD
PWB-D	92LPWB6894CDUS	CD MP3

CHAPTER 1. GENERAL DESCRIPTION

[1] Important Service Safety Precaution

■ **CAUTION : "These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so".**

■ **WARNING**

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED
PROTECTION AGAINST FIRE
HAZARD, REPLACE ONLY WITH
SAME TYPE F801, F802, 3.15A, 125V/
F803, F804 2A, 125V/
F805 1.6A, 125V FUSES.

ATTENTION: POUR ASSURER
UNE LONGUE PROTECTION CONTRE
UN INCENDIE, REMPLACER SEULEMENT
PAR UN FUSIBLE DE
TYPE F801, F802, 3.15A, 125V/
F803, F804 2A, 125V/
F805 1.6A, 125V FUSES.

[2] Specifications

■ General

Power source	AC 120 V - 60 Hz
Power consumption	105 W
Dimensions	Width: 6-3/4" (175 mm) Height: 9-1/2" (240 mm) Depth: 12-1/5" (315 mm)
Weight	10.5 lbs (4.78 kg)

■ Amplifier

Output power	20 watts minimum RMS per channel into 6 ohms from 100 Hz to 20 kHz, 10% total harmonic distortion
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer pre-out (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	Multi bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

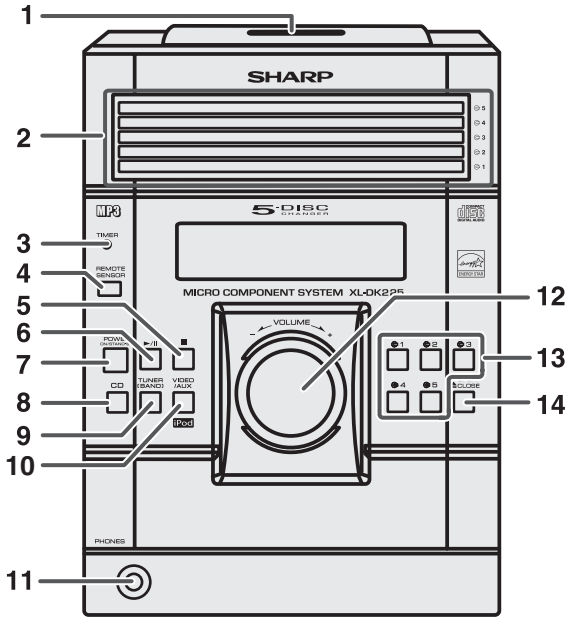
■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 530 - 1,720 kHz

■ Speaker

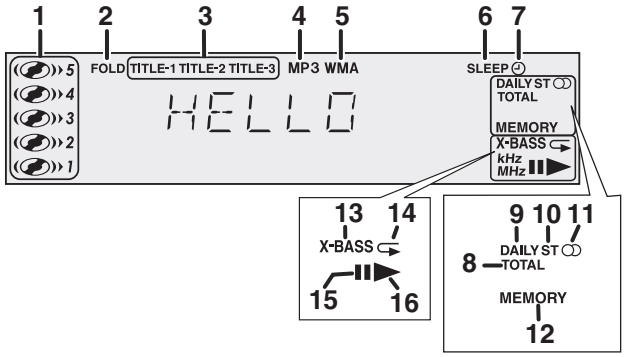
Type	2-way type speaker system 2" (5 cm) tweeter 4-3/4" (12 cm) woofer
Maximum input power	40 W
Rated input power	20 W
Impedance	6 ohms
Dimensions	Width: 5-13/16" (148 mm) Height: 10-1/4" (260 mm) Depth: 6-7/8" (175.5 mm)
Weight	4.93 lbs. (2.24 kg)/each

[3] Names Of Parts



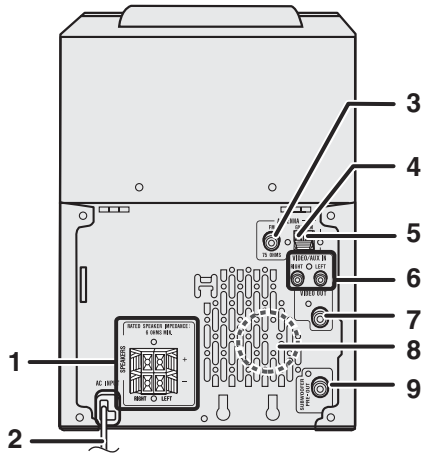
■ Front panel

1. iPod Terminal
2. Disc Trays
3. Timer Indicator
4. Remote Sensor
5. Disc Stop Button
6. Disc or iPod Play or Pause Button
7. Power On/Standby Button
8. CD Button
9. Tuner (Band) Button
10. Video/Auxiliary/iPod Button
11. Headphone Jack
12. Volume Control
13. Disc Number Select Buttons
14. Disc Tray Open/Close Button



■ Display

1. Disc Number Indicators
2. MP3/WMA Folder Indicator
3. MP3/WMA Title Indicators
4. MP3 Indicator
5. WMA Indicator
6. Sleep Indicator
7. Timer Play Indicator
8. MP3/WMA Total Indicator
9. Daily Timer Indicator
10. FM Stereo Mode Indicator
11. FM Stereo Receiving Indicator
12. Memory Indicator
13. Extra Bass Indicator
14. Disc Repeat Play Indicator
15. Disc Pause Indicator
16. Disc Play Indicator

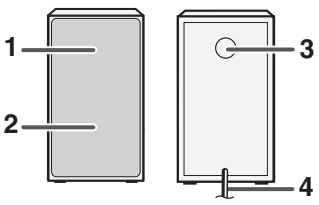


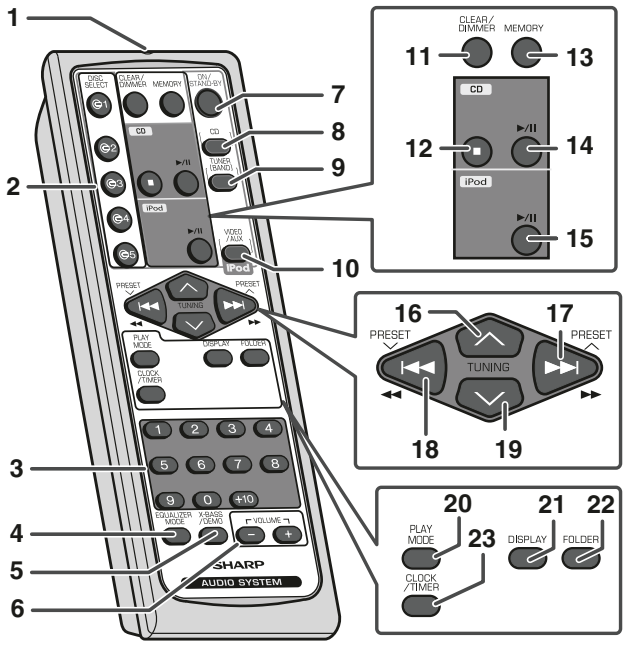
■ Rear panel

1. Speaker Terminals
2. AC Power Cord
3. FM 75 Ohms Antenna Jack
4. AM Antenna Ground Terminal
5. AM Loop Antenna Terminal
6. Video/Auxiliary (Audio Signal) Input Jacks
7. Video Out Jack
8. Cooling Fan
9. Subwoofer Pre-output Jack

■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire





■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Disc Direct Search Buttons
4. Equalizer Mode Select Button
5. Extra Bass/Demo Button
6. Volume Up and Down Buttons
7. Power On/Stand-by Button
8. CD Button
9. Tuner (Band) Button
10. Video/Auxiliary/iPod Button
11. Disc Clear/Dimmer Button
12. Disc Stop Button
13. Memory Button
14. Disc Play or Pause Button
15. iPod Play or Pause Button
16. Tuning Up Button
17. CD Track Up or Fast Forward, Tuner Preset Up, Time Up Button
18. CD Track Down or Fast Reverse, Tuner Preset Down, Time Down Button
19. Tuning Down Button
20. Play Mode Button
21. Display Button
22. Folder Button
23. Clock/Timer Button

CHAPTER 2. ADJUSTMENTS

[1] CD Section

1. CD SECTION

- **Adjustment**

  Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

  Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
   * Focus offset adjustment
   * Tracking offset adjustment
2) Tracking balance adjustment
3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
   * Focus gain adjustment
   * Tracking gain adjustment

2. CD ERROR CODE DESCRIPTION

Error	Explanation
10*	CAM error. Can't detect CAM switch when CAM is moving.
11*	When it detect cam operation error during initialize process.
20*	TRAY error. Can't detect TRAY switch when TRAY is moving.
21*	When it detect TRAY operation error during initialize process.

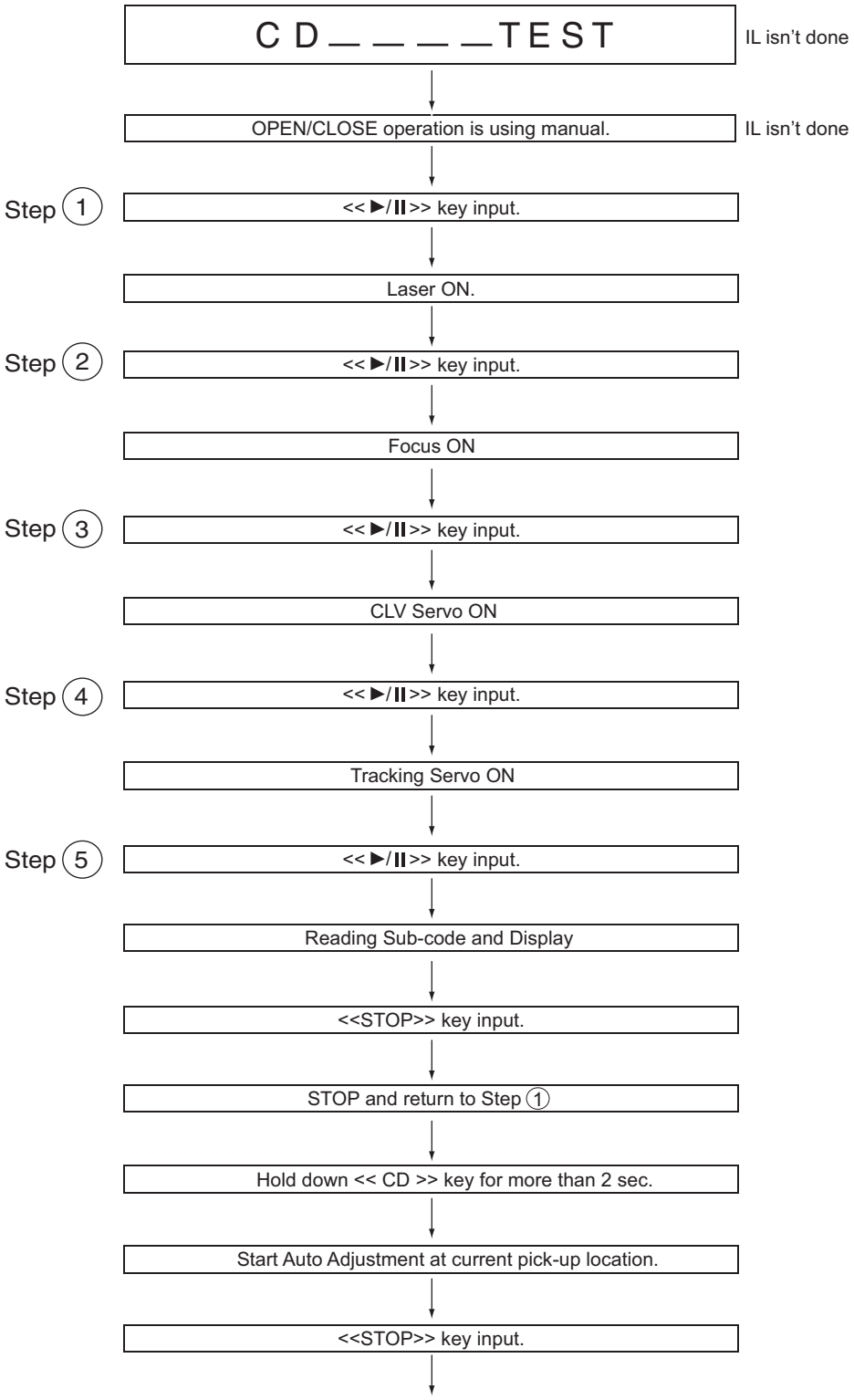
* 'CHECKING'

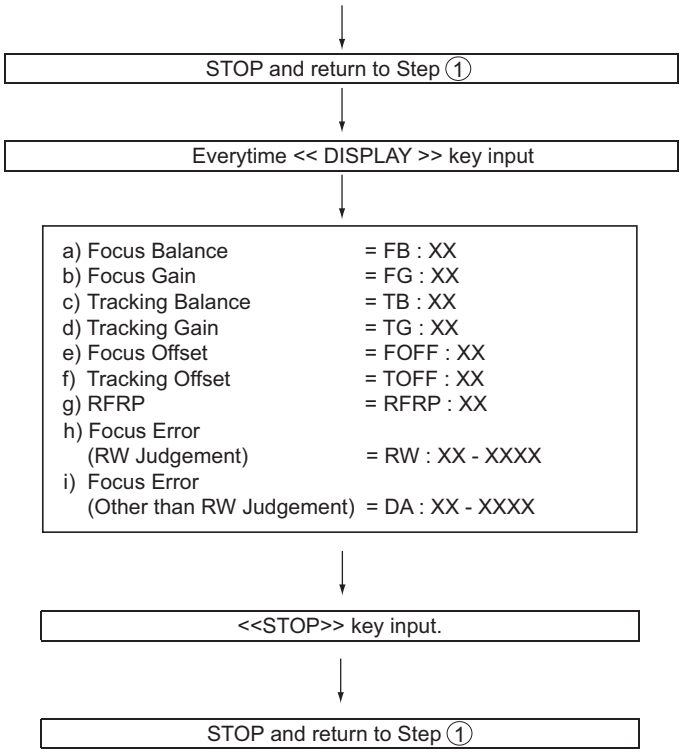
If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

[2] Test Mode

• Setting the test mode

During stand-by mode, press STOP button while pressing down the ③ button and ④ button. Then, press the CD button to enter the test mode.




STOP and return to Step ①
Everytime << DISPLAY >> key input
a) Focus Balance = FB : XX
b) Focus Gain = FG : XX
c) Tracking Balance = TB : XX
d) Tracking Gain = TG : XX
e) Focus Offset = FOFF : XX
f) Tracking Offset = TOFF : XX
g) RFRP = RFRP : XX
h) Focus Error
(RW Judgement) = RW : XX - XXXX
i) Focus Error
(Other than RW Judgement) = DA : XX - XXXX
<<STOP>> key input.
STOP and return to Step ①

Note • Sliding the PICKUP with << ▷▷ >>, << ◁◁ >> button can be set in STOP mode or play mode.

• During at Step ①, if press << ►/II >> for more than 1 sec, it directly goes to step ⑤.

To cancel: Power OFF

[3] Standard Specification Of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
CD	CD Changer Mechanism Error.	'ER-CD**' (*)	10: CAM SW Detection NG during normal operation
			11: CAM SW Detection NG during initialize process
			20: TRAY SW Detection NG during normal operation
			21: TRAY SW Detection NG during initialize process
	Focus Not Match/IL Time Over.	'NO DISC'	
TUNER	PLL Unlock.	FM 87.50 MHz	PLL Unlock.

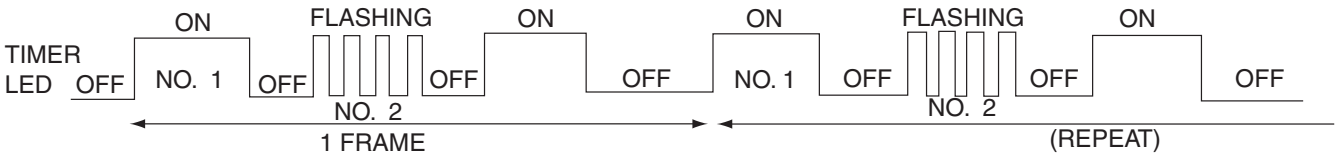
(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' will only be display when error had been detected for the 5th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, the unit will automatically enter to stand-by mode and Timer indicator will flashing as below.

Example: In case of speaker abnormal



NO. 1 : +B PROTECTION
NO. 2 : Speaker abnormal

BEFORE TRANSPORTING THE UNIT

The following process need to be taken after set tapering/parts replacement.

1. Press the POWER ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ⊖3 button and the ⊖4 button, press the ■ button. The Micro Computer version number will be displayed as "X5U_10**".
3. Press the ⊖4 button until "WAIT"--> "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

CHAPTER 3. MECHANICAL DESCRIPTION

[1] Removing And Reinstalling The Main Parts

1. CHANGER MECHANISM SECTION

Perform steps 1, 2, 9 and 10 of the disassembly method to remove the CD changer mechanism.

1.1 How to remove CD Disc (See Fig. 1-4)

1. When CD is at play position (Figure 1), rotate reduction gear C clock-wise as shown in Figure 2 until disc tray is at stock position, then rotate further to eject the disc tray so that CD can be removed from the tray.

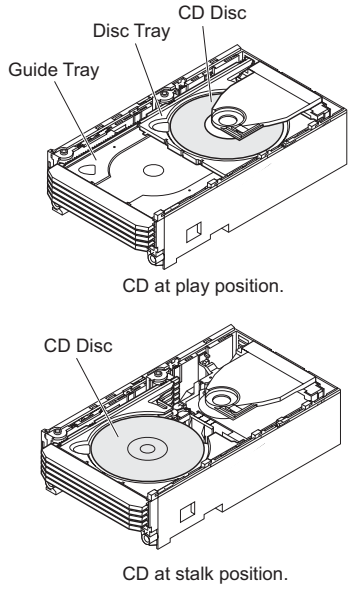


Figure 1

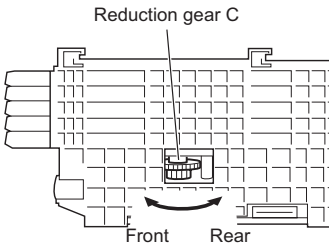


Figure 2

2. In another case, if CD mechanism is at tray No.1 play position and to remove CD located in tray No.3, the procedure is as follows:

   If the gear up down board is located at tray No.1 position, then rotate gear clock-wise until it is at stock postiiton. Rotate reduction gear D clockwise (Figure 3) to move the CD mechanism to tray No.3 position. This is confirmed by checking the gear up down board position by the marking as indicated on the main chassis as shown in Figure 4.

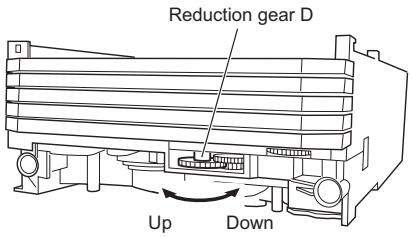


Figure 3

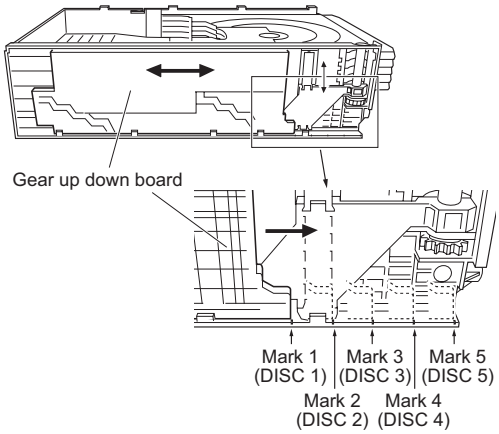


Figure 4

[2] Disassembly

Caution on disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1) Take cassette tape and compact disc out of the unit.
2) Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3) Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4) Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw .....(A1) X 6	1
2	Side Panel (Left/Right)	1. Screw .....(B1) X 8	1
3	CD Changer unit	1. Screw .....(C1) X 2 2. Hook .....(C2) X 2 3. Socket .....(C3) X 3 4. Flat Cable .....(C4) X 2	2
4	Rear Panel with Speaker PWB	1. Screw .....(D1) X 4 2. Socket .....(D2) X 1 3. Flat Cable .....(D3) X 1	2
5	Front Panel	1. Screw .....(E1) X 3 2. Flat Cable .....(E2) X 2 3. Socket .....(E3) X 1 4. Hook .....(E4) X 2	3
6	Main PWB	1. Screw .....(F1) X 3 2. Socket .....(F2) X 2	3
7	Power PWB	1. Screw .....(G1) X 4	3
8	Speaker PWB	1. Screw .....(H1) X 2	4
9	Display PWB	1. Knob .....(J1) X 1 2. Nut .....(J2) X 1 3. Washer .....(J3) X 1 4. Screw .....(J4) X 6	5
10	USB PWB / SUB PWB	1. Screw .....(K1) X 2	5
11	Jack PWB	1. Screw .....(L1) X 1	5
12	Re-Flash PWB	1. Screw .....(M1) X 1	6
13	CD MP3 PWB	1. Screw .....(N1) X 3 2. Flat Cable .....(N2) X 2 3. Socket .....(N3) X 1	7
14	CD Mechanism	1. Screw .....(P1) X 4 2. Screw .....(P2) X 4	7 8

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

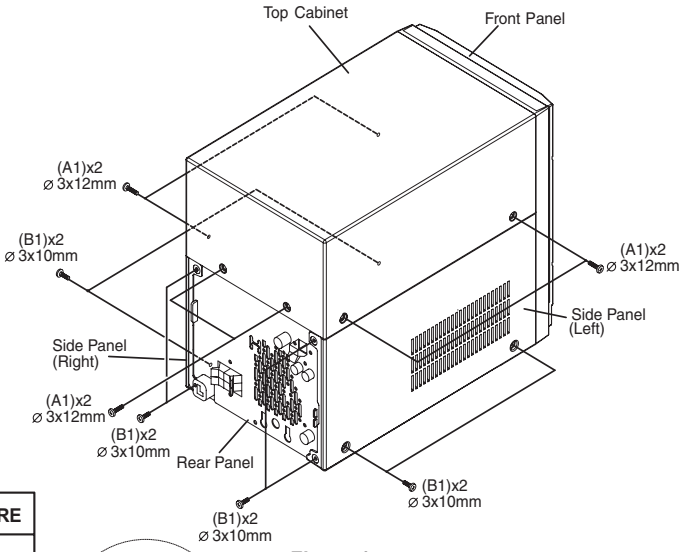


Figure 1

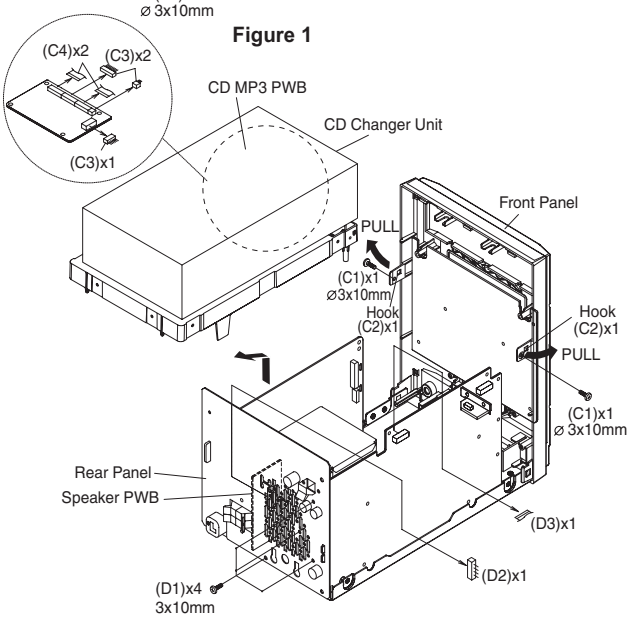


Figure 2

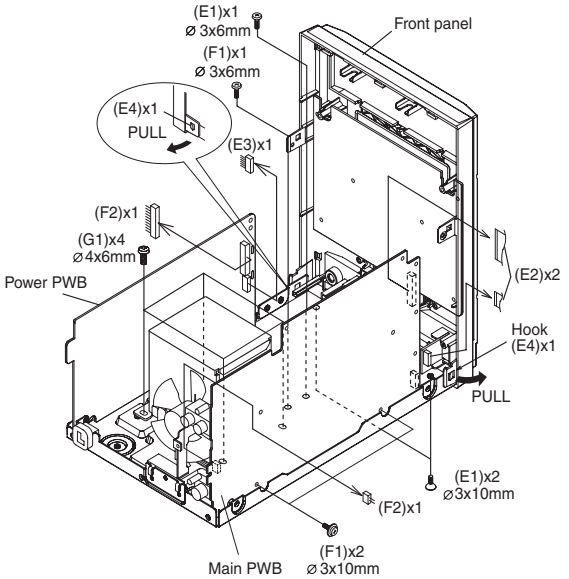


Figure 3

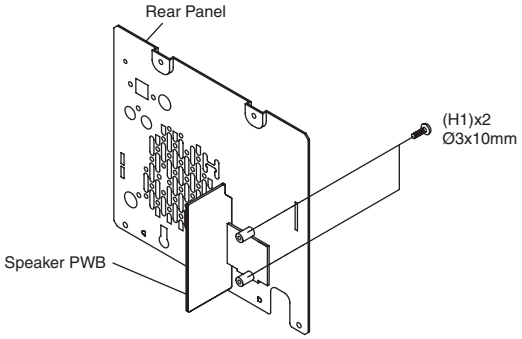


Figure 4

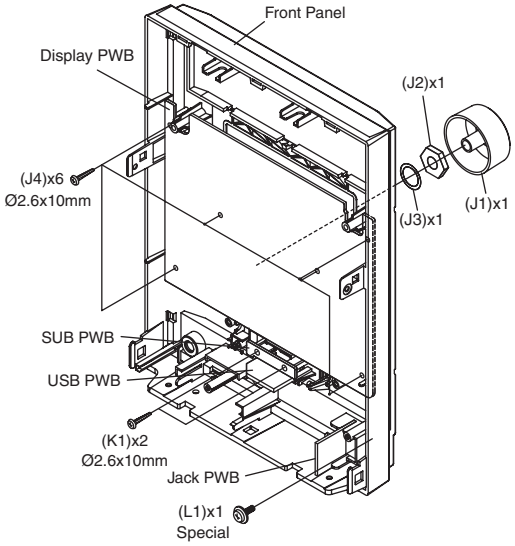


Figure 5

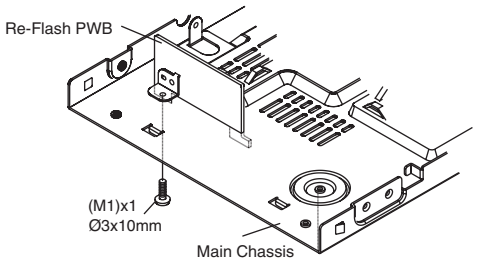


Figure 6

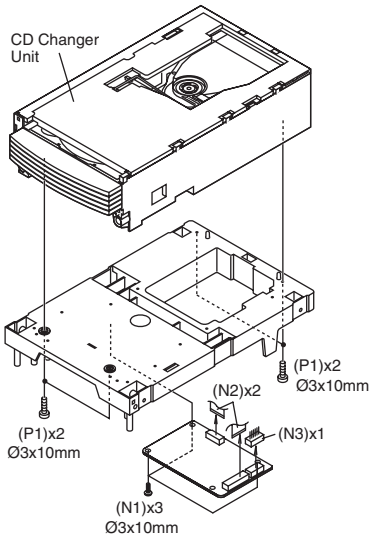


Figure 7

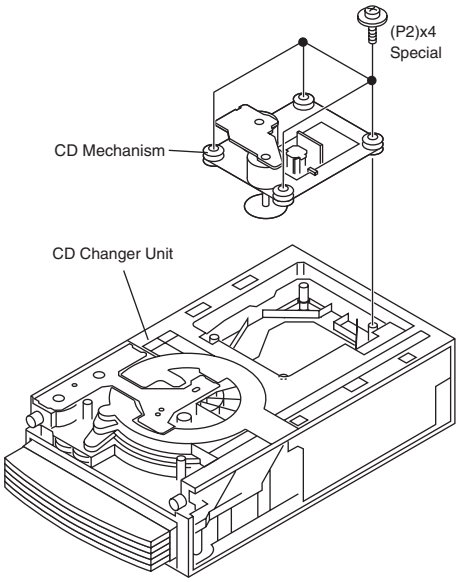


Figure 8

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer	1. Net Frame Ass'y..... (A1) X 1 2. Catching Holder..... (A2) X 4 3. Screw ..... (A3) X 4 4. Screw ..... (A4) X 4	9, 10
2	Tweeter	1. Screw ..... (B1) X 2	10

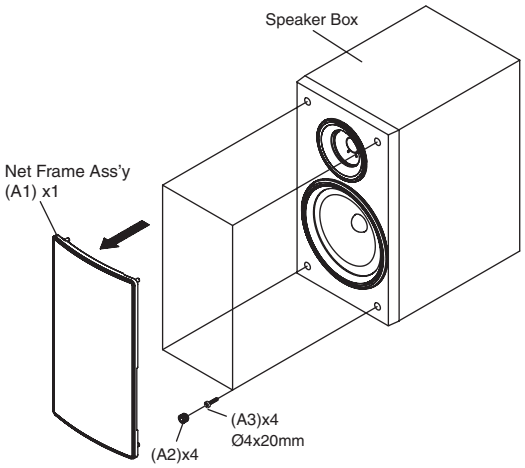


Figure 9

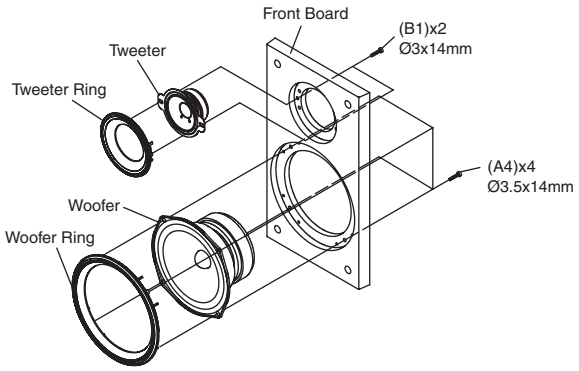


Figure 10

-MEMO-

CHAPTER 4. DIAGRAMS

[1] Main Block Diagram

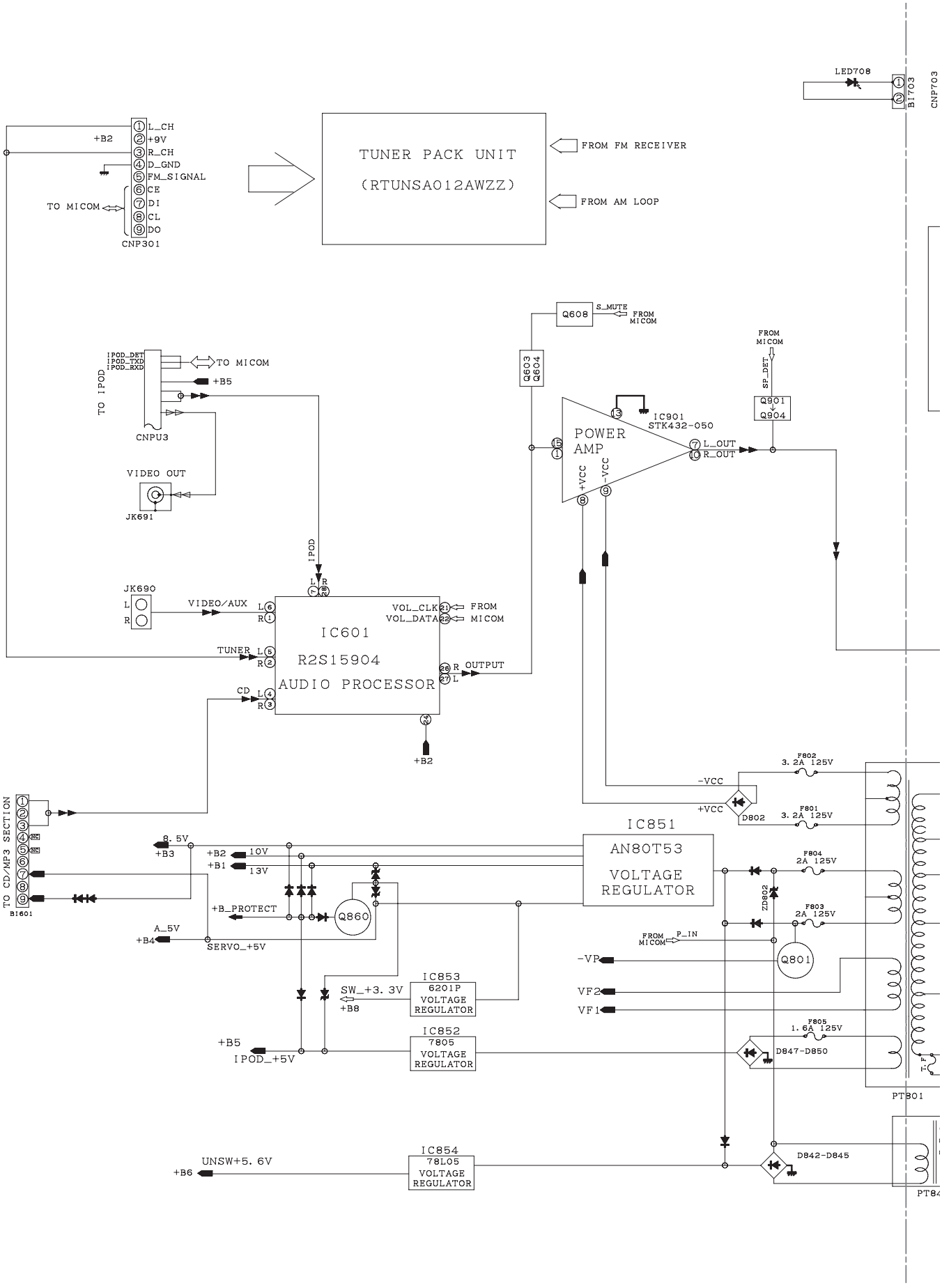


Figure 4-1: MAIN BLOCK DIAGRAM (1/2)

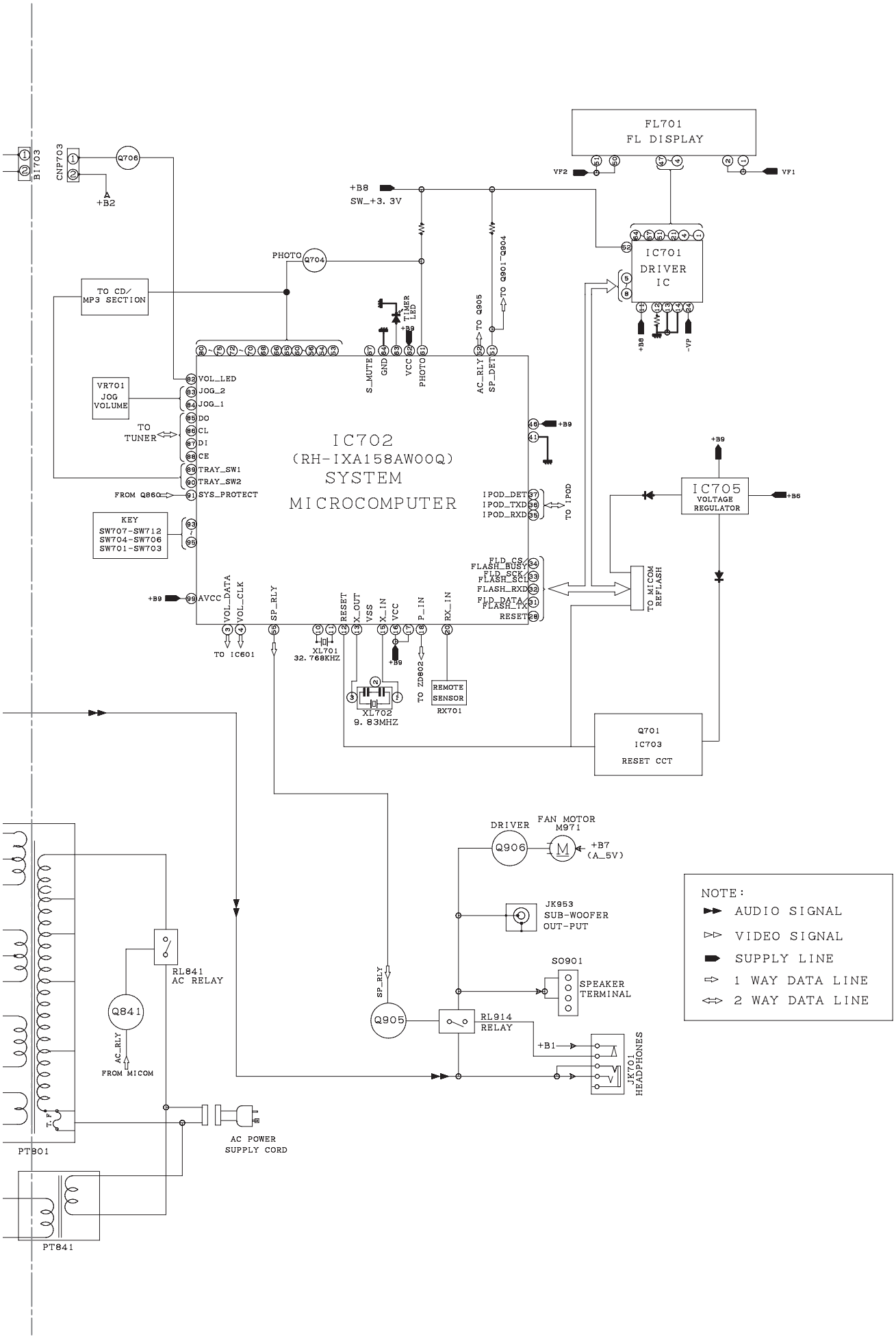


Figure 4-2: MAIN BLOCK DIAGRAM (2/2)

[2] CD Block Diagram

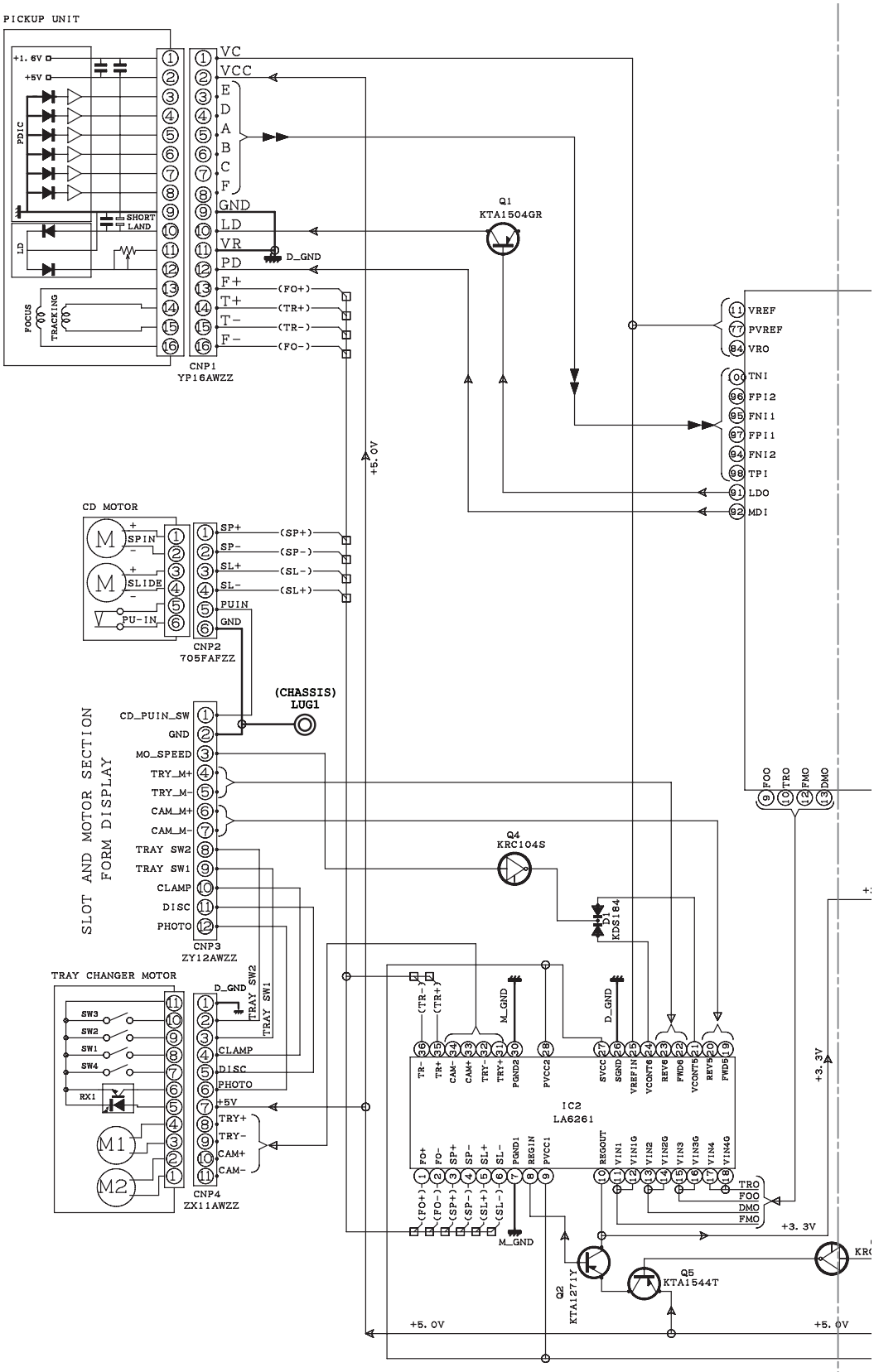


Figure 4-3: CD BLOCK DIAGRAM (1/2)

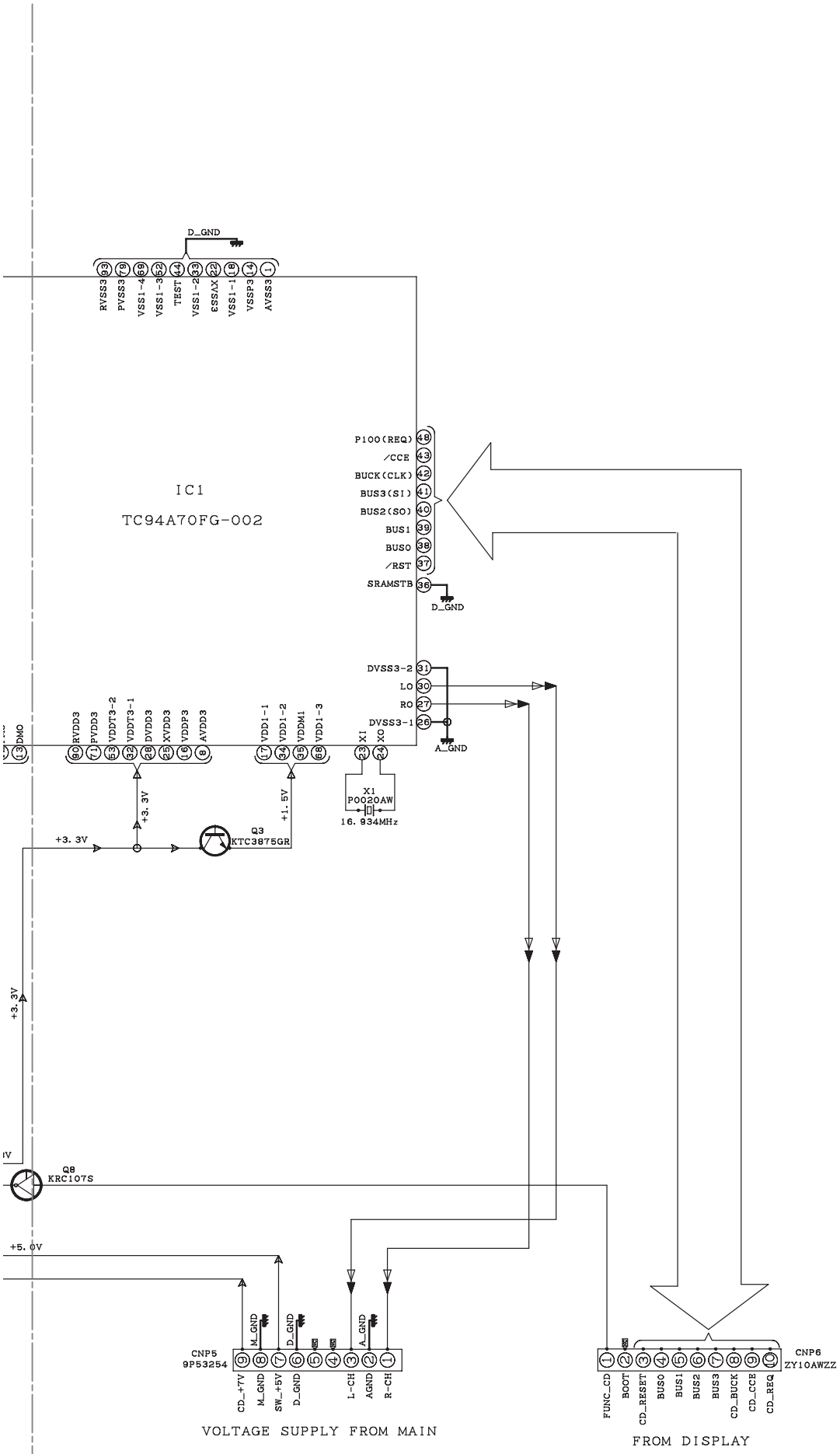
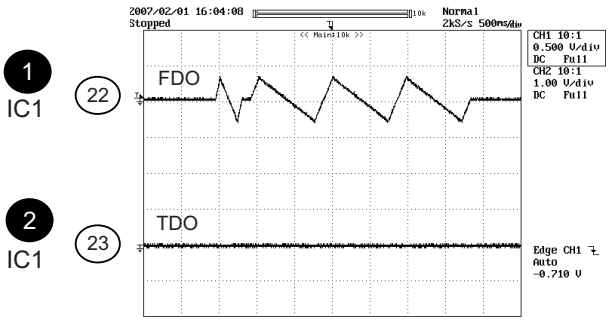
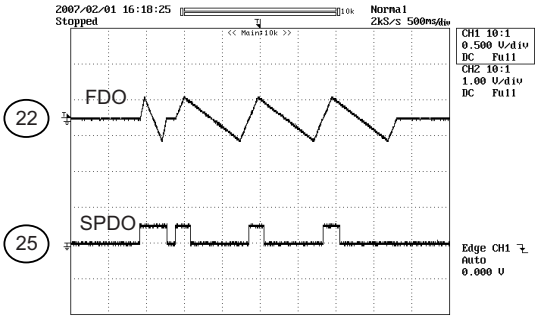


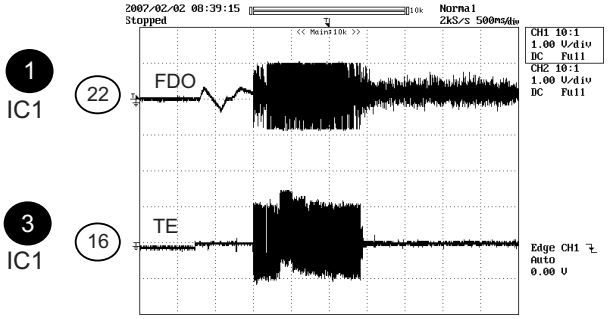
Figure 4-4: CD BLOCK DIAGRAM (2/2)

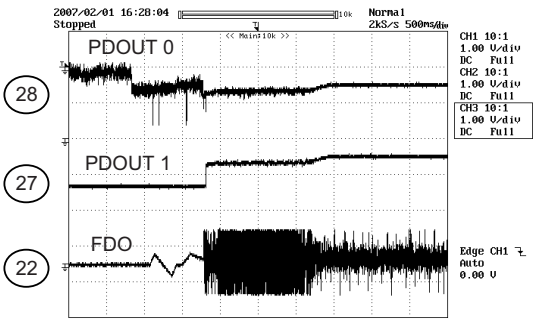
CHAPTER 5. CIRCUIT DESCRIPTION

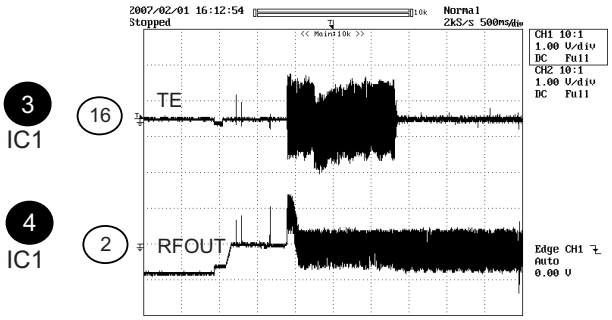
[1] Waveforms Of CD Circuit

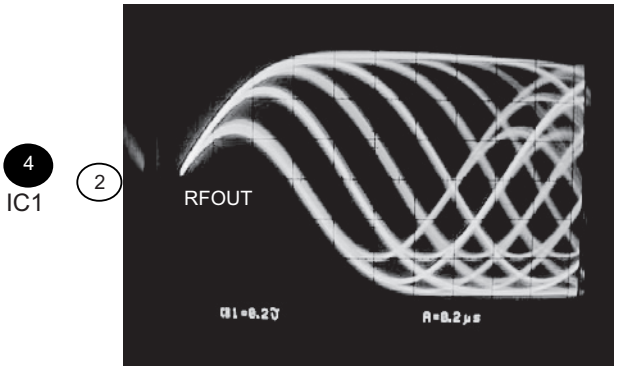












[2] Voltage

IC1							
PIN NO	VOLTAGE	PIN NO	VOLTAGE	PIN NO	VOLTAGE	PIN NO	VOLTAGE
1	0.02	26	0.01	51	1.53	76	3.26
2	1.63	27	1.52	52	0.03	77	1.63
3	0.76	28	3.03	53	3.27	78	0.98
4	0.70	29	1.52	54	0.03	79	0.02
5	0.59	30	1.52	55	0.03	80	1.74
6	0.70	31	0.01	56	3.27	81	1.63
7	1.63	32	3.27	57	1.53	82	1.63
8	3.27	33	0.03	58	3.27	83	1.68
9	1.63	34	4.53	59	0.04	84	1.63
10	1.63	35	1.53	60	3.27	85	1.62
11	1.63	36	0.01	61	0.03	86	1.64
12	1.63	37	3.25	62	0.03	87	1.66
13	1.63	38	2.41	63	0.03	88	1.62
14	0.01	39	2.14	64	0.03	89	0.50
15	0.52	40	2.59	65	1.62	90	3.27
16	0.55	41	2.25	66	1.65	91	3.25
17	0.01	42	0.61	67	3.24	92	0.01
18	0.01	43	3.25	68	1.49	93	0.02
19	1.11	44	0.04	69	0.02	94	1.63
20	0.36	45	0.04	70	1.63	95	1.63
21	0.26	46	0.04	71	3.26	96	1.63
22	0.01	47	0.04	72	1.61	97	1.63
23	0.26	48	0.10	73	1.31	98	1.63
24	0.34	49	1.64	74	0.02	99	1.64
25	0.54	50	1.65	75	1.38	100	1.63

IC2							
PIN NO	VOLTAGE	PIN NO	VOLTAGE	PIN NO	VOLTAGE	PIN NO	VOLTAGE
1	3.18	10	3.27	19	3.20	28	7.09
2	3.17	11	1.63	20	3.20	29	0.01
3	3.19	12	1.63	21	0.01	30	1.63
4	3.20	13	1.63	22	0.01	31	2.24
5	3.19	14	1.63	23	0.01	32	3.15
6	3.18	15	1.63	24	0.01	33	3.16
7	0.00	16	1.63	25	0.00	34	2.69
8	4.39	17	1.62	26	7.03	35	3.16
9	7.08	18	1.62	27	7.08	36	3.16

Q1	
PIN NO	VOLTAGE
E	3.26
C	0.89
B	4.37

Q2	
PIN NO	VOLTAGE
E	5.05
C	3.26
B	4.37

Q3	
PIN NO	VOLTAGE
E	1.48
C	3.26
B	2.17

Q4	
PIN NO	VOLTAGE
E	0.01
C	0.02
B	3.11

Q5	
PIN NO	VOLTAGE
E	5.08
C	5.05
B	4.37

Q8	
PIN NO	VOLTAGE
E	0.00
C	0.04
B	2.98

IC701			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	3.22	51	3.30
2	3.22	52	3.14
3	0.00	53	3.31
4	0.00	54	3.31
5	0.00	55	3.15
6	3.22	56	3.23
7	0.00	57	3.24
8	0.00	58	3.23
9	0.00	59	3.24
10	0.47	60	3.24
11	0.63	61	3.31
12	3.19	62	3.24
13	1.54	63	0.00
14	0.00	64	0.00
15	0.00	65	0.00
16	3.24	66	0.00
17	3.24	67	3.14
18	1.05	68	0.00
19	0.00	69	0.00
20	3.18	70	3.22
21	0.00	71	3.31
22	0.00	72	0.00
23	0.00	73	0.00
24	0.00	74	3.24
25	0.71	75	3.24
26	0.00	76	3.24
27	0.00	77	0.00
28	3.24	78	0.00
29	0.00	79	0.00
30	0.00	80	0.00
31	3.24	81	3.24
32	0.00	82	3.22
33	3.24	83	3.28
34	3.24	84	0.00
35	3.24	85	3.31
36	3.28	86	3.24
37	3.27	87	0.00
38	0.00	88	0.00
39	0.00	89	0.00
40	0.00	90	0.00
41	0.00	91	3.31
42	0.00	92	3.28
43	0.76	93	3.28
44	0.63	94	3.28
45	0.00	95	3.28
46	3.23	96	0.00
47	0.00	97	3.28
48	0.58	98	3.30
49	0.00	99	3.24
50	0.00	100	0.00

IC702			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	-26.44	33	-26.42
2	-26.40	34	-28.77
3	-26.40	35	-26.41
4	-26.40	36	-26.40
5	3.24	37	-26.41
6	3.20	38	-24.06
7	3.24	39	-17.00
8	3.24	40	-26.40
9	0.00	41	-24.07
10	0.00	42	-9.89
11	3.29	43	-26.40
12	1.51	44	-9.98
13	1.51	45	-17.00
14	0.00	46	-12.34
15	-24.10	47	-9.94
16	-28.77	48	-26.40
17	-28.78	49	-26.42
18	-28.77	50	-24.06
19	-28.77	51	-14.67
20	-28.75	52	-12.36
21	-28.77	53	-28.76
22	-28.77	54	-28.76
23	-21.70	55	-28.76
24	-28.97	56	-28.75
25	-26.40	57	-26.45
26	-28.77	58	-26.41
27	-28.76	59	-26.41
28	-28.76	60	-26.40
29	21.71	61	-26.40
30	-24.06	62	-26.40
31	-24.07	63	-26.40
32	-24.07	64	-26.40

IC601			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	4.62	15	4.65
2	4.62	16	0.00
3	4.63	17	0.00
4	4.63	18	4.64
5	4.62	19	4.64
6	4.62	20	0.00
7	4.63	21	0.00
8	4.65	22	0.00
9	4.61	23	4.63
10	4.65	24	9.28
11	4.61	25	0.00
12	4.65	26	4.65
13	4.65	27	4.65
14	4.64	28	4.63

IC703	
PIN NO	VOLTAGE (V)
1	3.30
2	3.30
3	0.00
4	-
5	-

IC705	
PIN NO	VOLTAGE (V)
1	3.90
2	0.60
3	5.60

IC901			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	-0.10	9	-23.00
2	-0.10	10	0.00
3	-	11	0.00
4	21.90	12	-22.10
5	-20.70	13	0.00
6	0.00	14	-0.10
7	0.00	15	-0.10
8	23.10		

IC852	
PIN NO	VOLTAGE (V)
1	15.80
2	0.00
3	4.90

IC853	
PIN NO	VOLTAGE (V)
1	3.30
2	0.00
3	5.10

IC851			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	5.10	5	16.20
2	13.00	6	10.00
3	16.40	7	8.50
4	0.00		

IC854	
PIN NO	VOLTAGE (V)
1	5.60
2	0.60
3	13.90

Q603	
PIN NO	VOLTAGE (V)
1	0.00
2	0.00
3	0.70

Q604	
PIN NO	VOLTAGE (V)
1	0.00
2	0.00
3	0.70

Q608	
PIN NO	VOLTAGE (V)
1	2.20
2	2.20
3	0.00

Q701	
PIN NO	VOLTAGE (V)
1	0.00
2	3.20
3	0.00

Q702	
PIN NO	VOLTAGE (V)
1	0.00
2	3.20
3	0.00

Q704	
PIN NO	VOLTAGE (V)
1	0.00
2	3.30
3	0.00

Q706	
PIN NO	VOLTAGE (V)
1	0.00
2	0.00
3	3.00

Q801	
PIN NO	VOLTAGE (V)
1	-28.90
2	-29.50
3	-37.60

Q841	
PIN NO	VOLTAGE (V)
1	0.80
2	0.00
3	0.00

Q860	
PIN NO	VOLTAGE (V)
1	0.00
2	3.50
3	0.00

Q901	
PIN NO	VOLTAGE (V)
1	0.00
2	3.40
3	0.00

Q902	
PIN NO	VOLTAGE (V)
1	0.00
2	3.30
3	0.00

Q903	
PIN NO	VOLTAGE (V)
1	0.00
2	3.10
3	0.00

Q904	
PIN NO	VOLTAGE (V)
1	0.00
2	3.10
3	0.00

Q905	
PIN NO	VOLTAGE (V)
1	0.00
2	0.00
3	0.70

Q906	
PIN NO	VOLTAGE (V)
1	0.70
2	0.00
3	3.60

-MEMO-

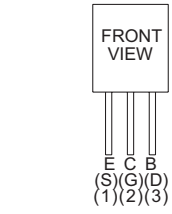
CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] Notes On Schematic Diagram

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the CD section, the CD is stopped.
- Parts marked with “⚠” (⊏ ⎓ ⎓ ⎓ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

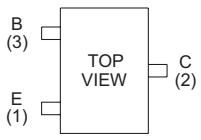
REF. NO	DESCRIPTION	POSITION
SW701	DISC4	ON—OFF
SW702	DISC5	ON—OFF
SW703	OPEN/CLOSE	ON—OFF
SW704	DISC1	ON—OFF
SW705	DISC2	ON—OFF
SW706	DISC3	ON—OFF
SW707	POWER ON/STAND-BY	ON—OFF
SW708	PLAY/REPEAT	ON—OFF
SW709	STOP	ON—OFF
SW710	VIDEO/AUX/USB	ON—OFF
SW711	TUNER (BAND)	ON—OFF
SW712	CD	ON—OFF
VR701	VOLUME	MAX—MIN

[2] Types Of Transistor And LED

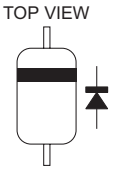


KTA1271 Y
KTA1274 Y
KIA78L05

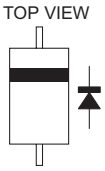
KTC3199 GR
KTC3203 Y



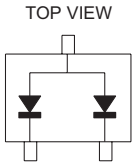
KRA102 S
KRC107 S
KRC102 S
KRC104 S
KTA1504 GR
KTC3875 GR
KTA1544 T
KTC3265 Y



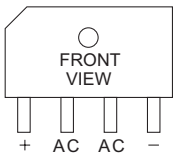
HSS4148



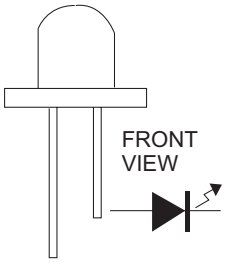
1N4004S
DRL204F
MA111



KDS184



10XB60F
S4B05GM



343VC3F
503BC2E30

KIA7805A

[3] Schematic Diagram

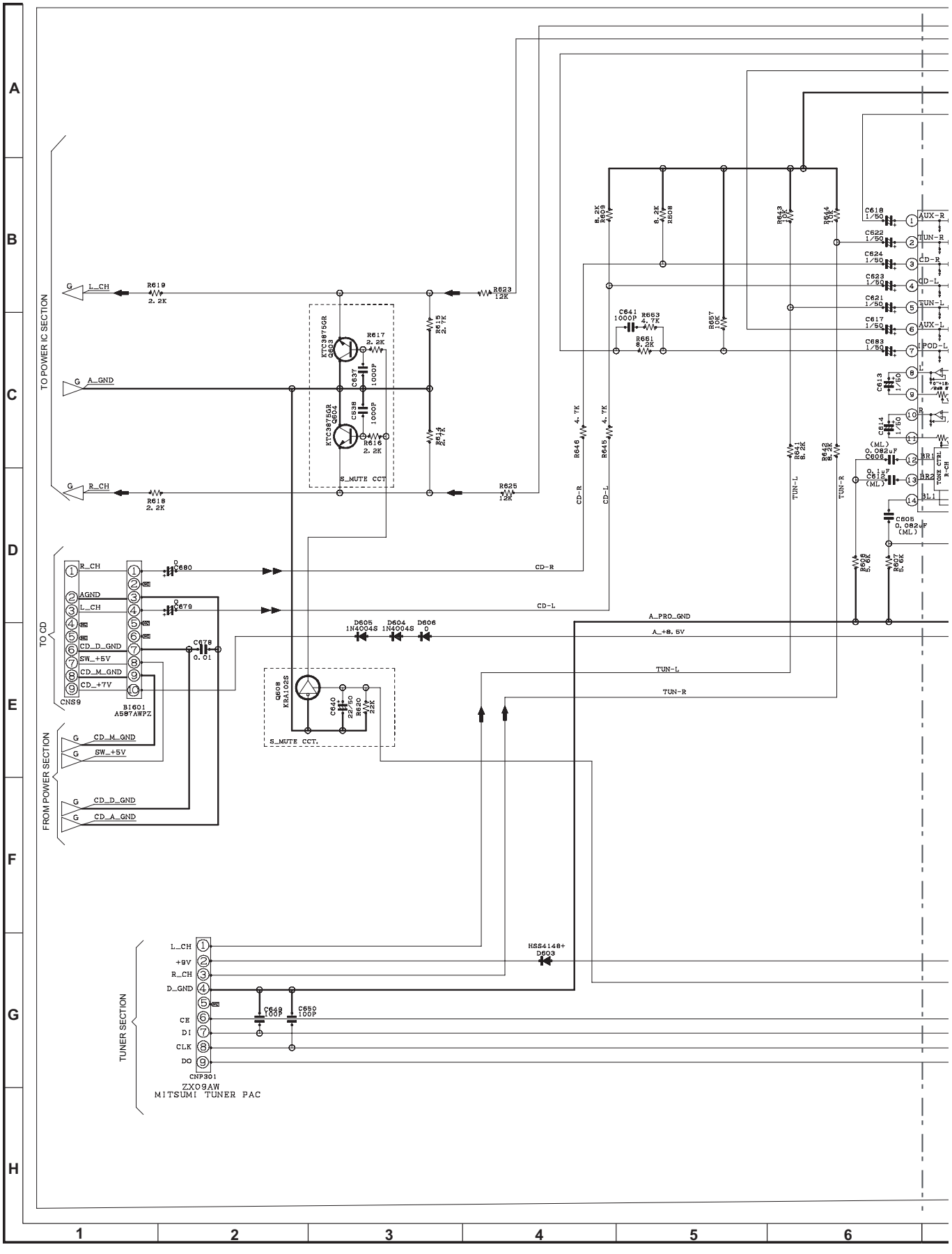


Figure 6-1: MAIN SCHEMATIC DIAGRAM (1/2)

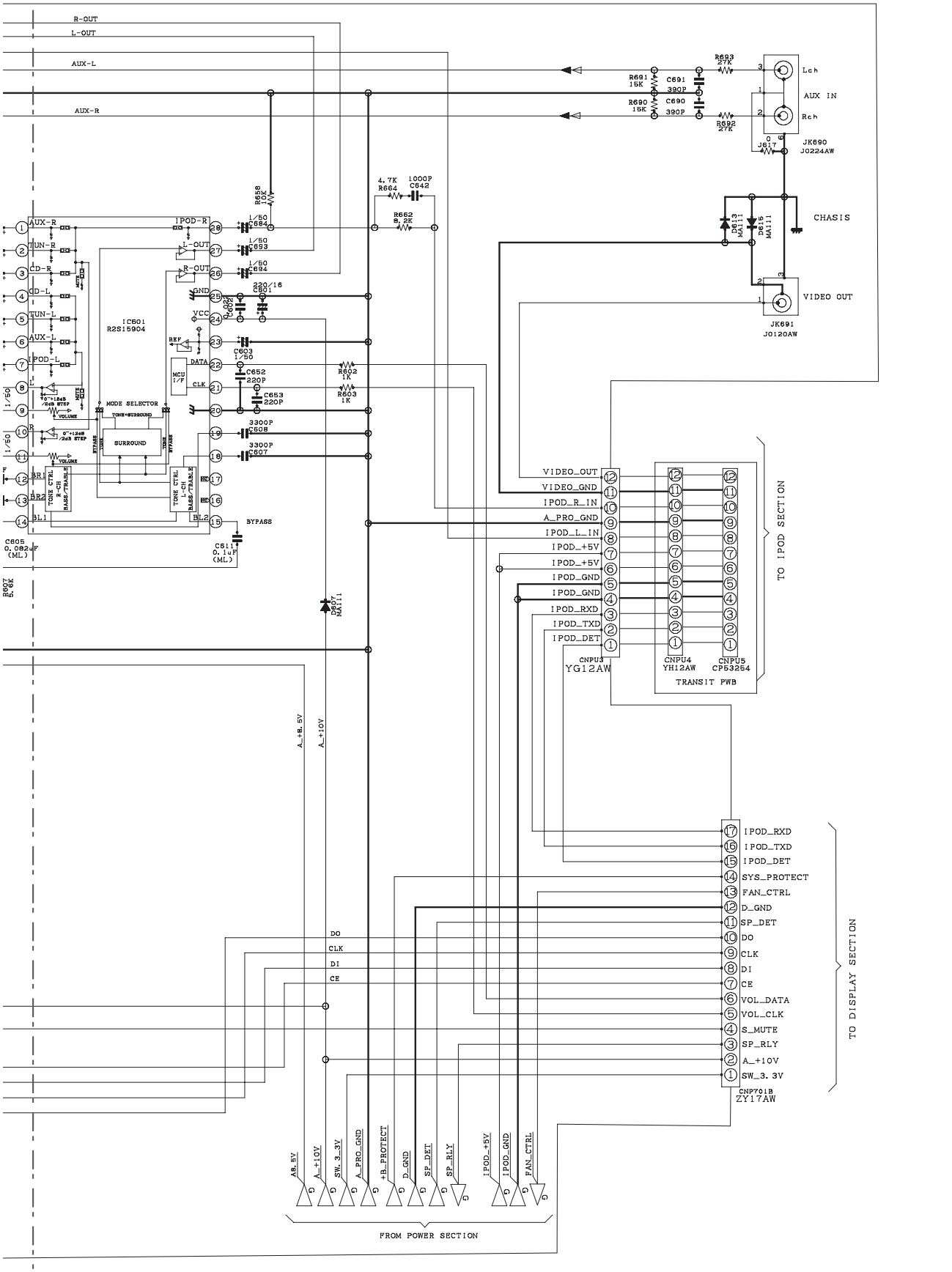


Figure 6-2: MAIN SCHEMATIC DIAGRAM (2/2)

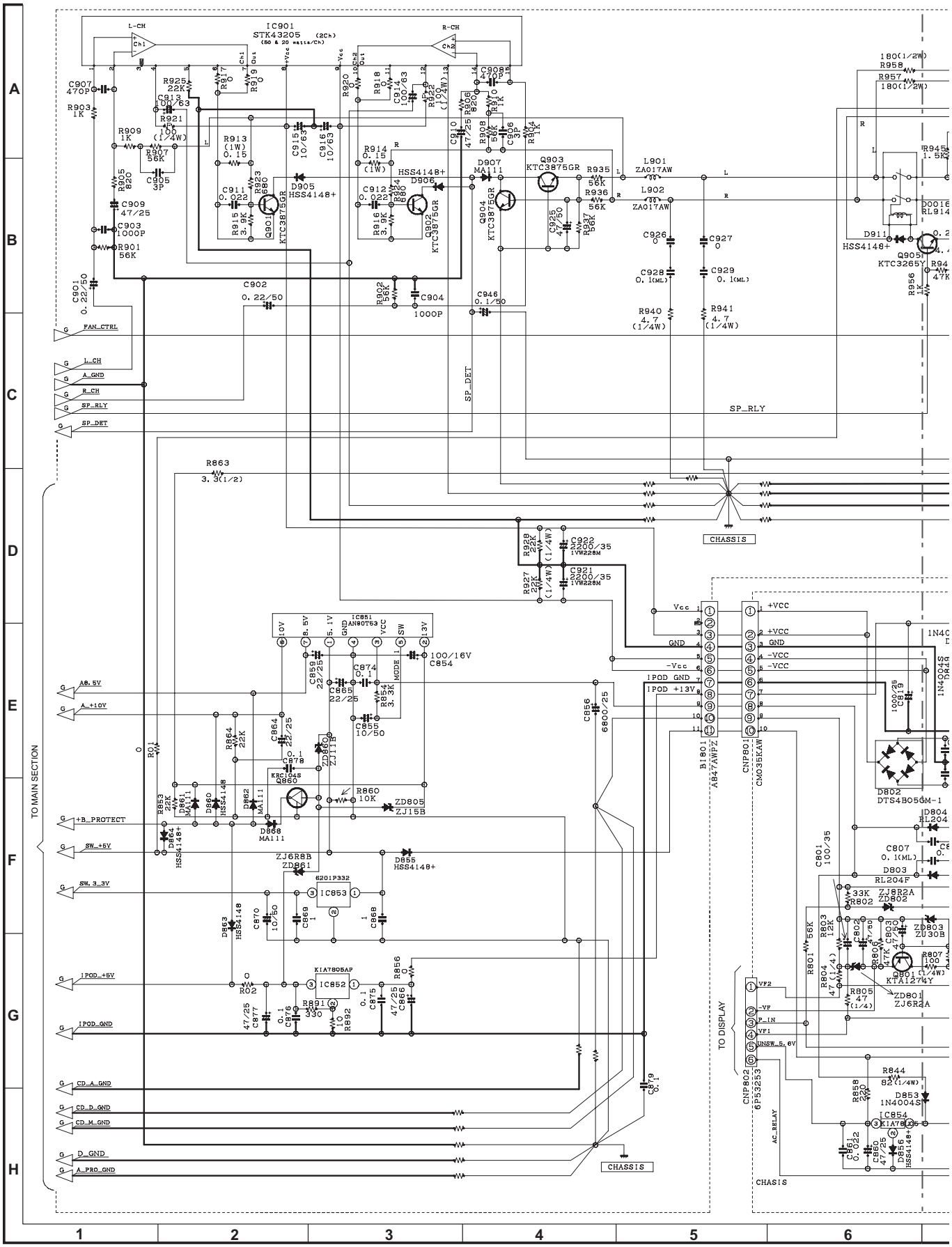


Figure 6-3: POWER SCHEMATIC DIAGRAM (1/2)

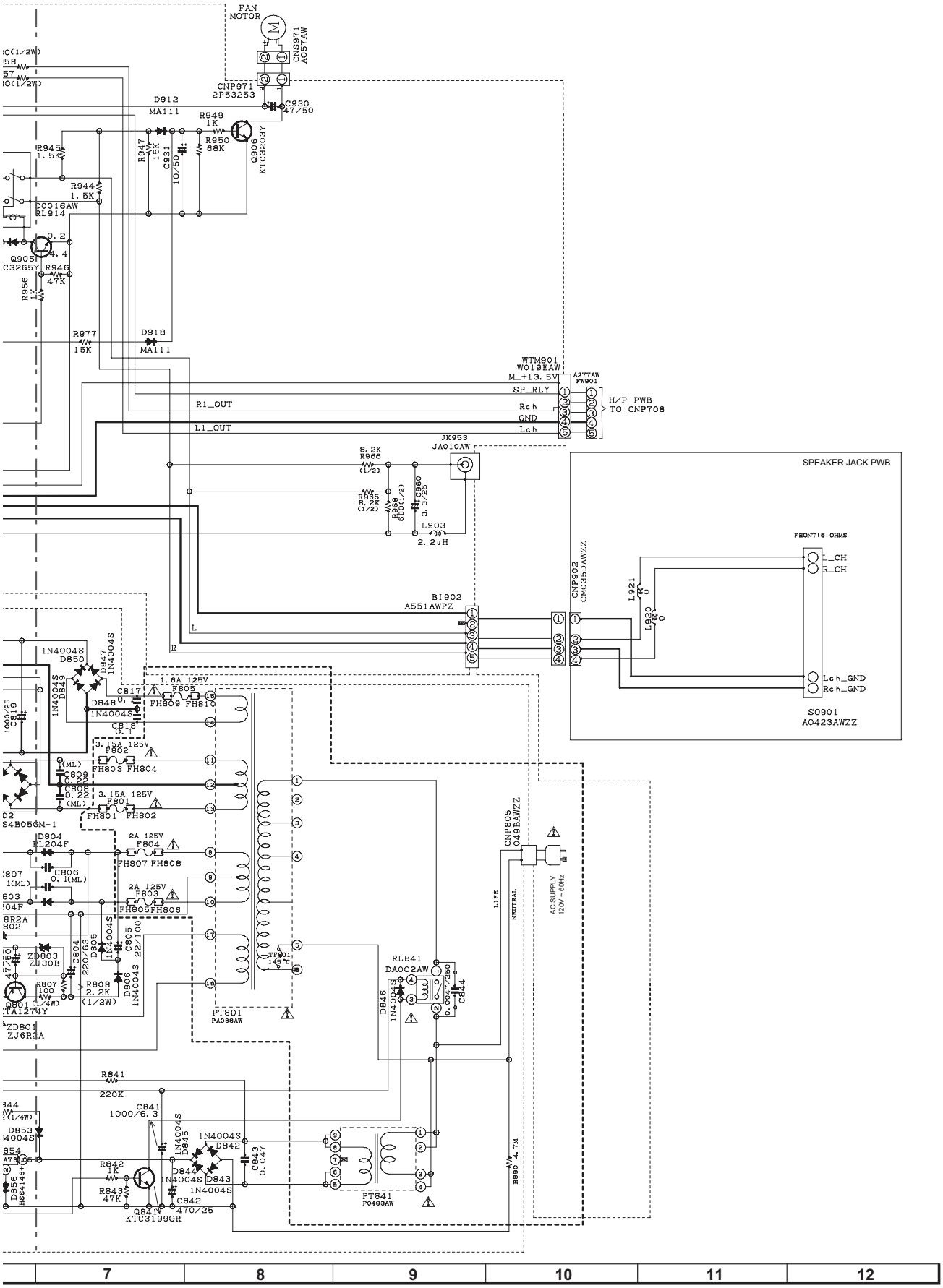


Figure 6-4: POWER SCHEMATIC DIAGRAM (2/2)

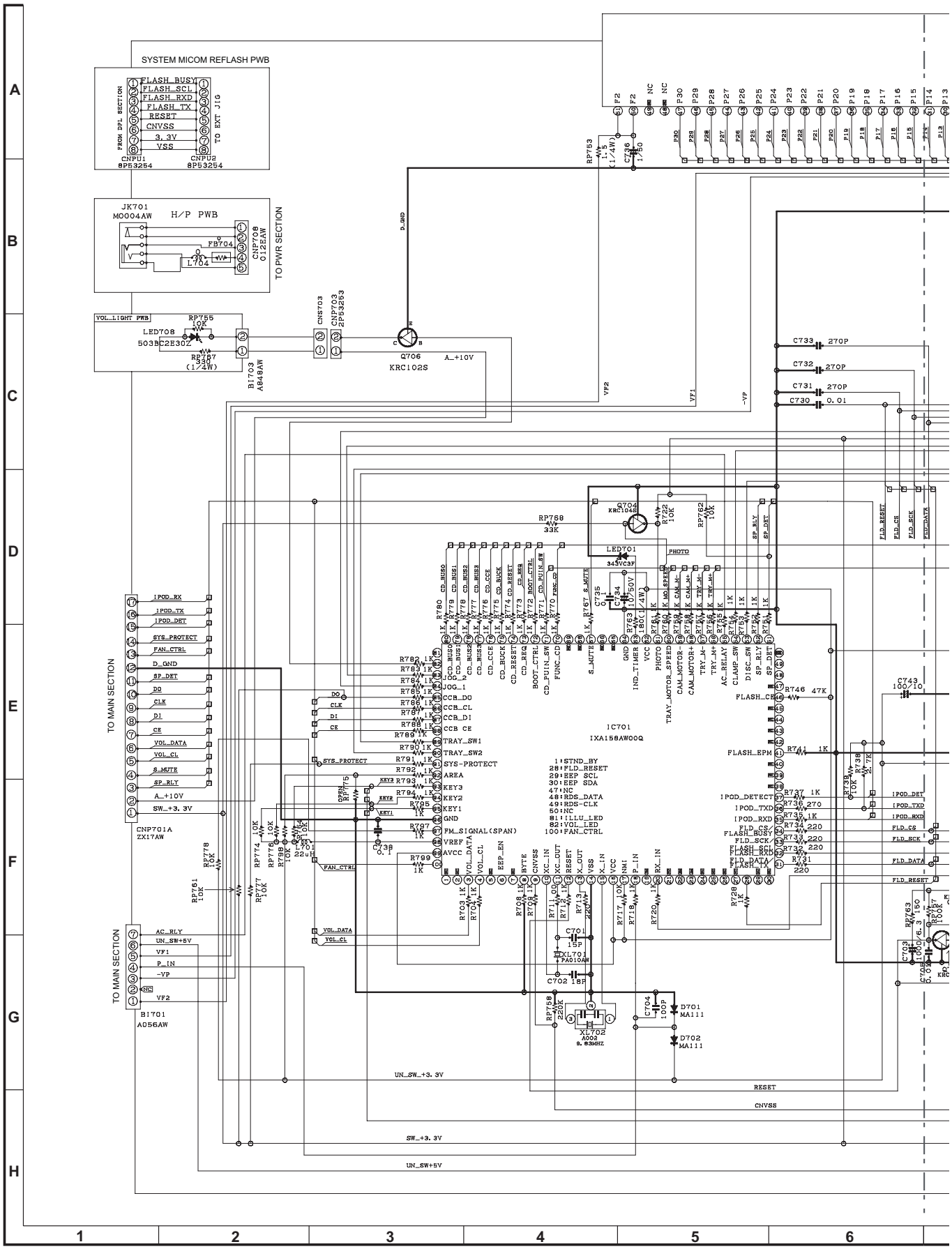


Figure 6-5: DISPLAY SCHEMATIC DIAGRAM (1/2)

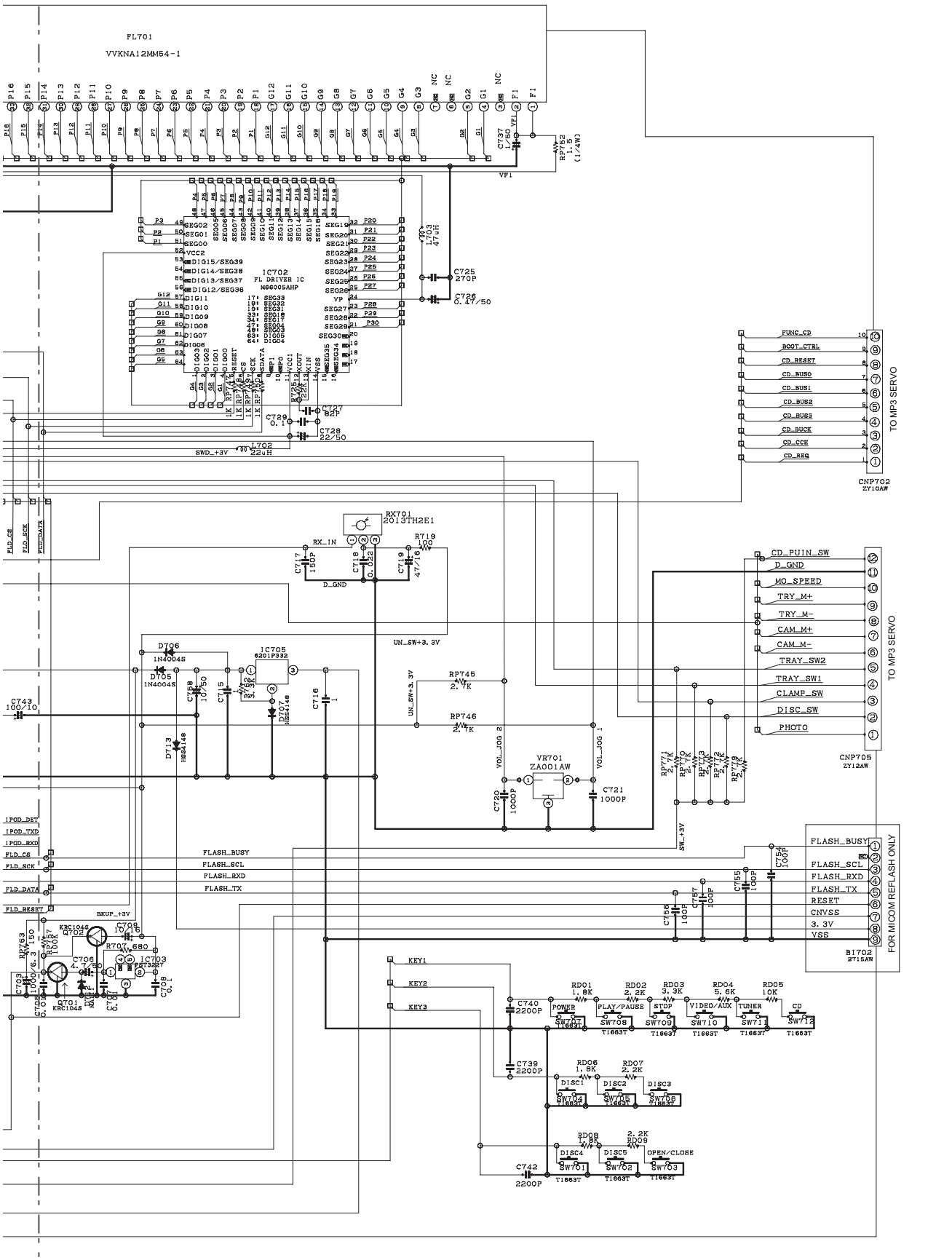


Figure 6-6: DISPLAY SCHEMATIC DIAGRAM (2/2)

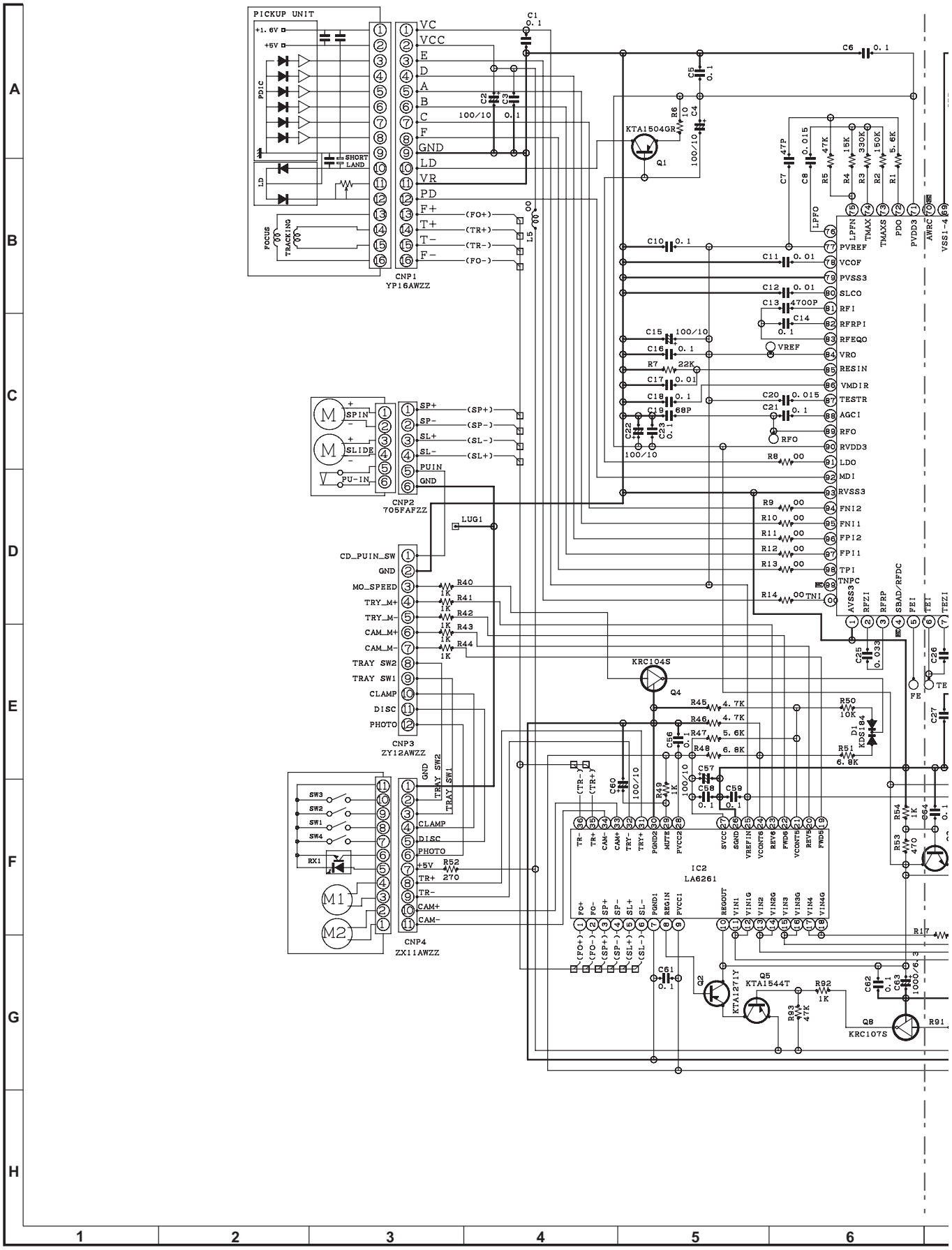


Figure 6-7: CD MP3 SCHEMATIC DIAGRAM (1/2)

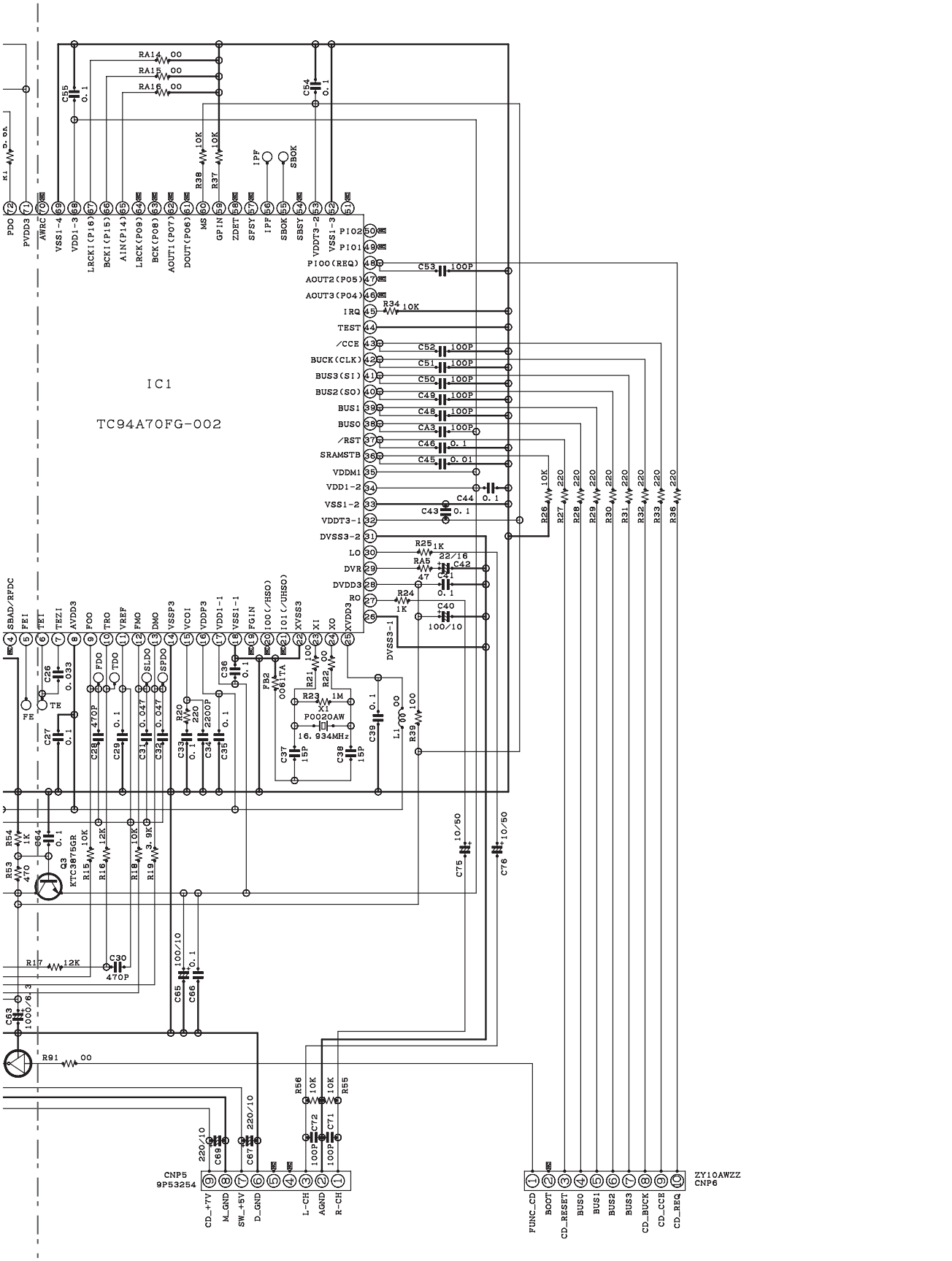


Figure 6-8: CD MP3 SCHEMATIC DIAGRAM (2/2)

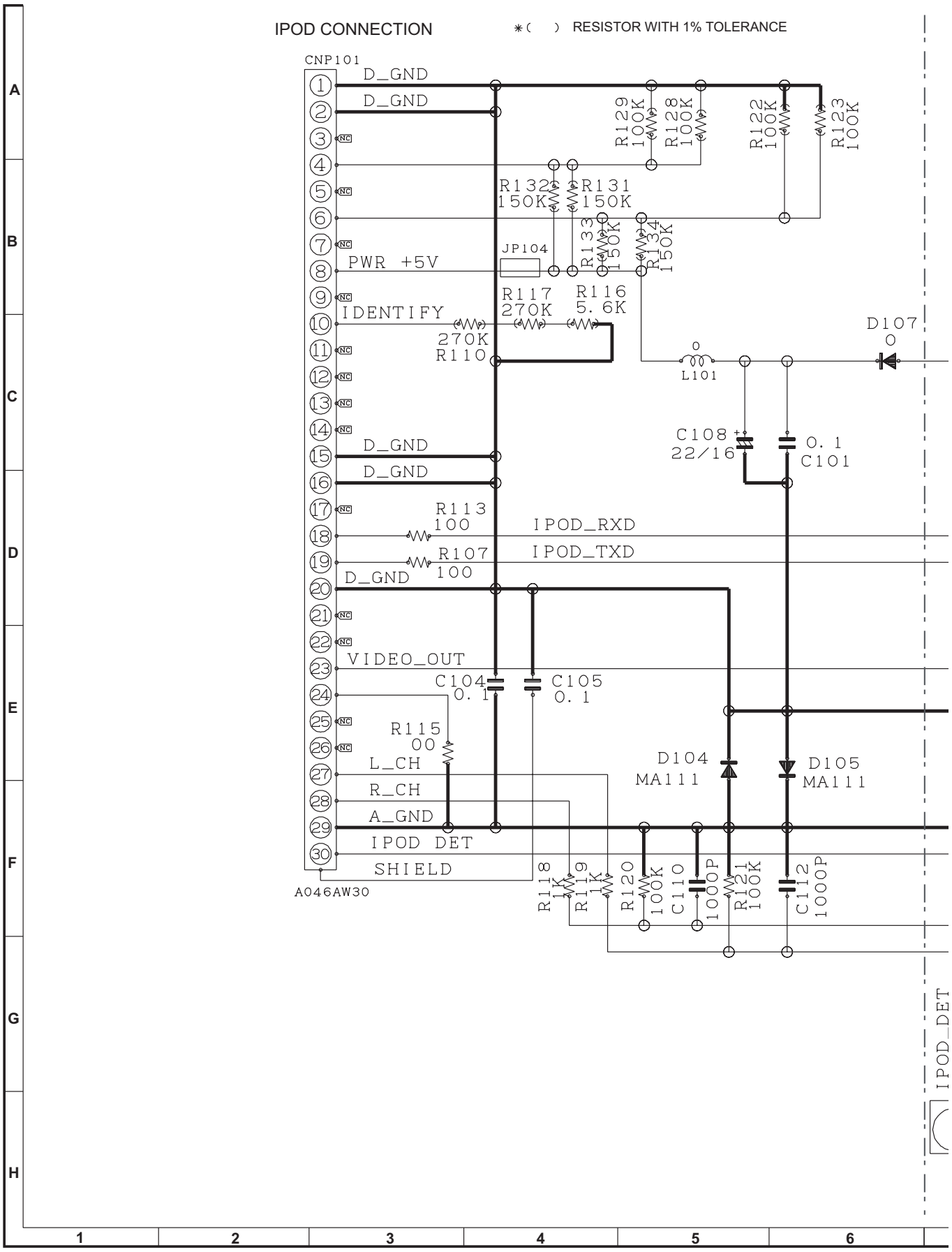


Figure 6-9: iPOD SCHEMATIC DIAGRAM (1/2)

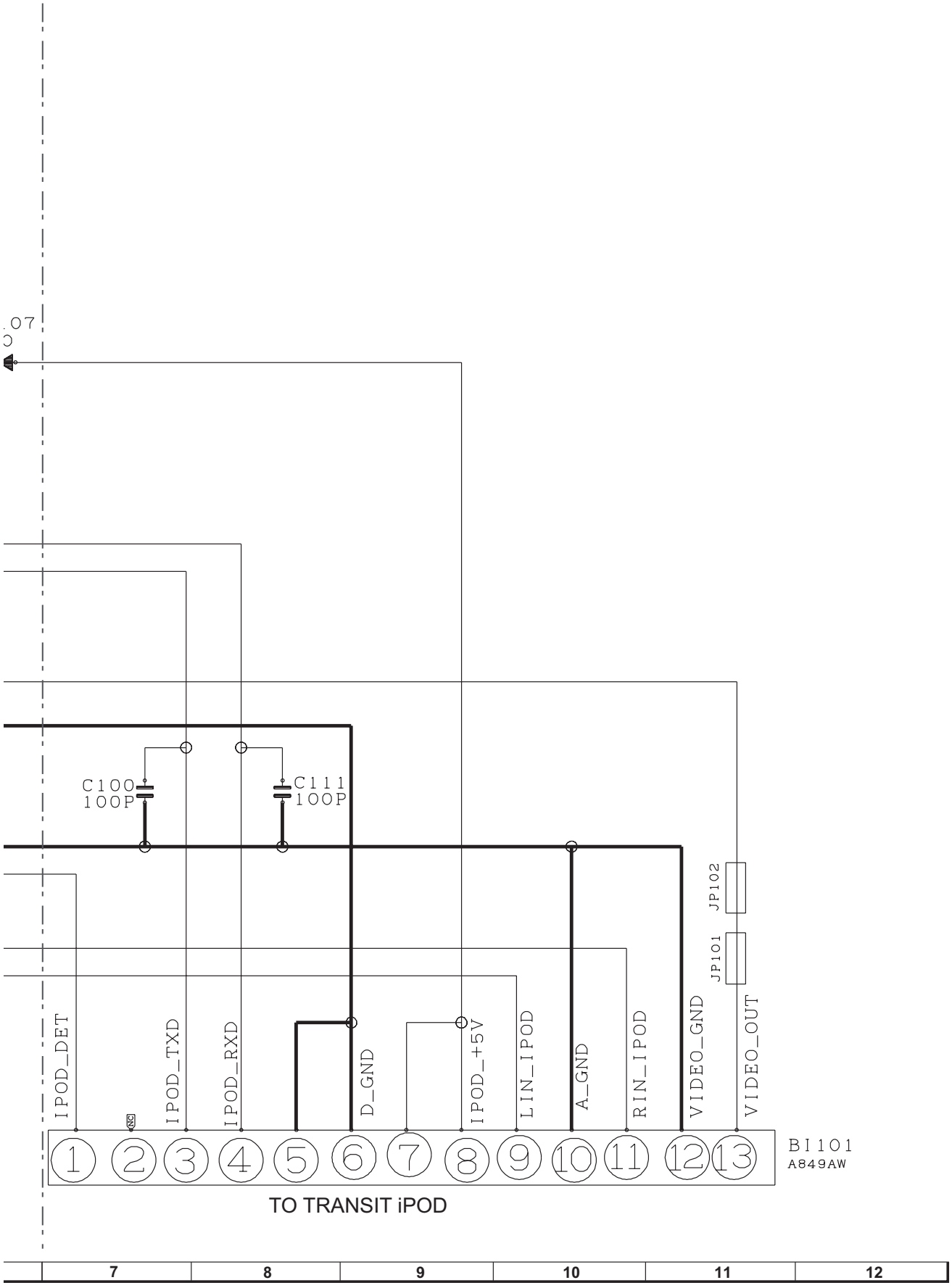


Figure 6-10: iPOD SCHEMATIC DIAGRAM (2/2)

[4] Charts Of Connecting Wires

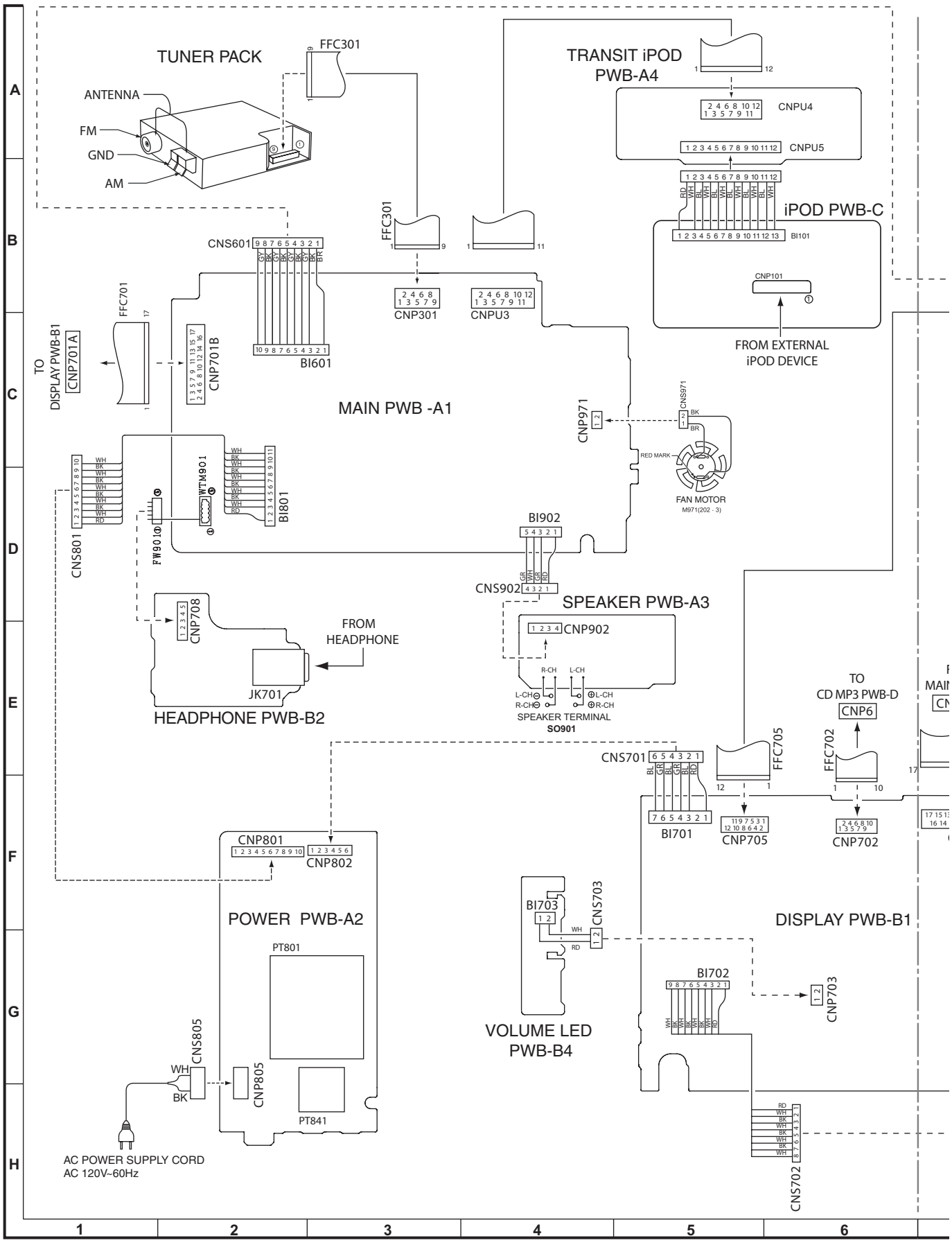
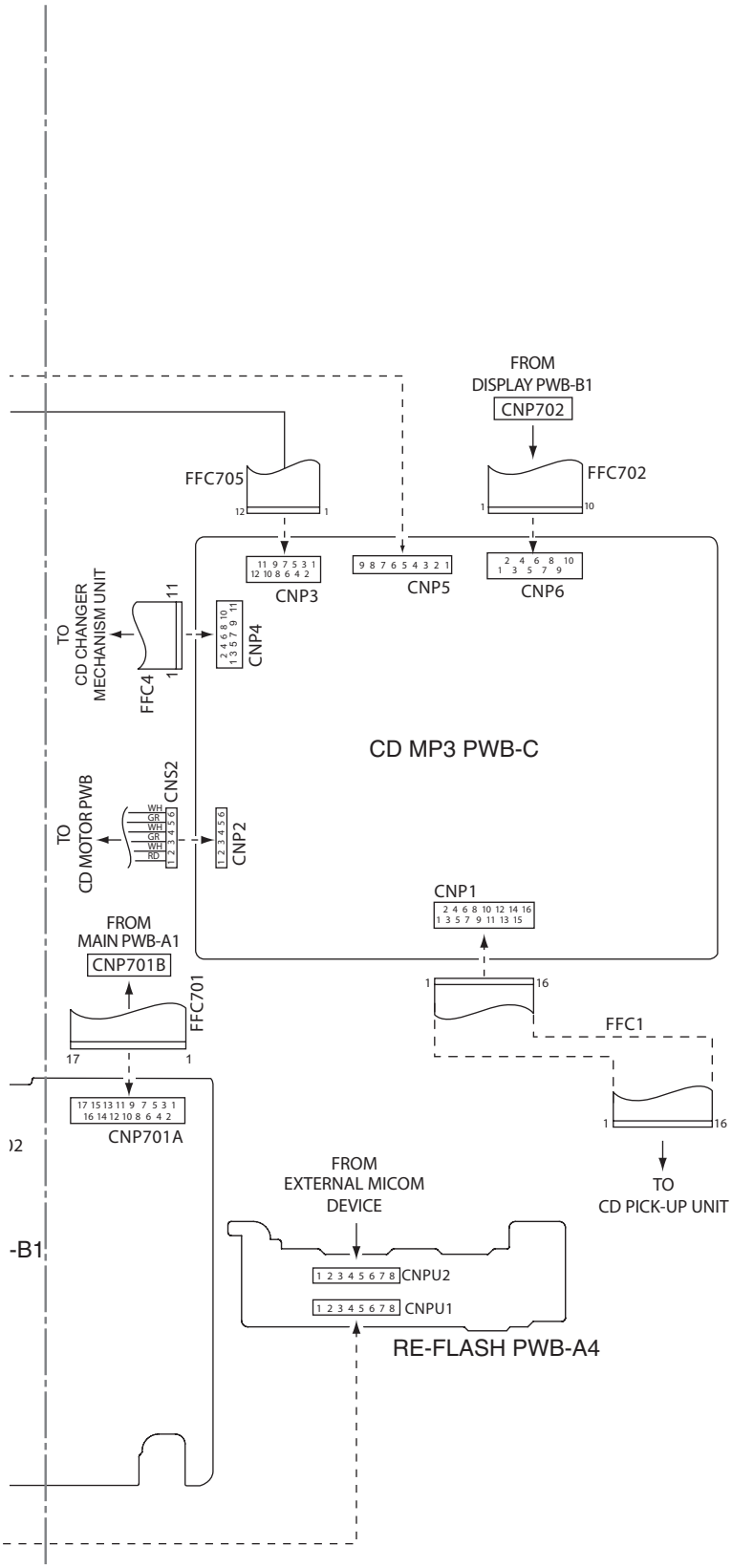


Figure 6-11: WIRING CONNECTION (1/2)



COLOR TABLE	
BR	BROWN
BL	BLUE
GY	GRAY
BK	BLACK
GR	GREEN
WH	WHITE
RD	RED

7	8	9	10	11	12

Figure 6-12: WIRING CONNECTION (2/2)

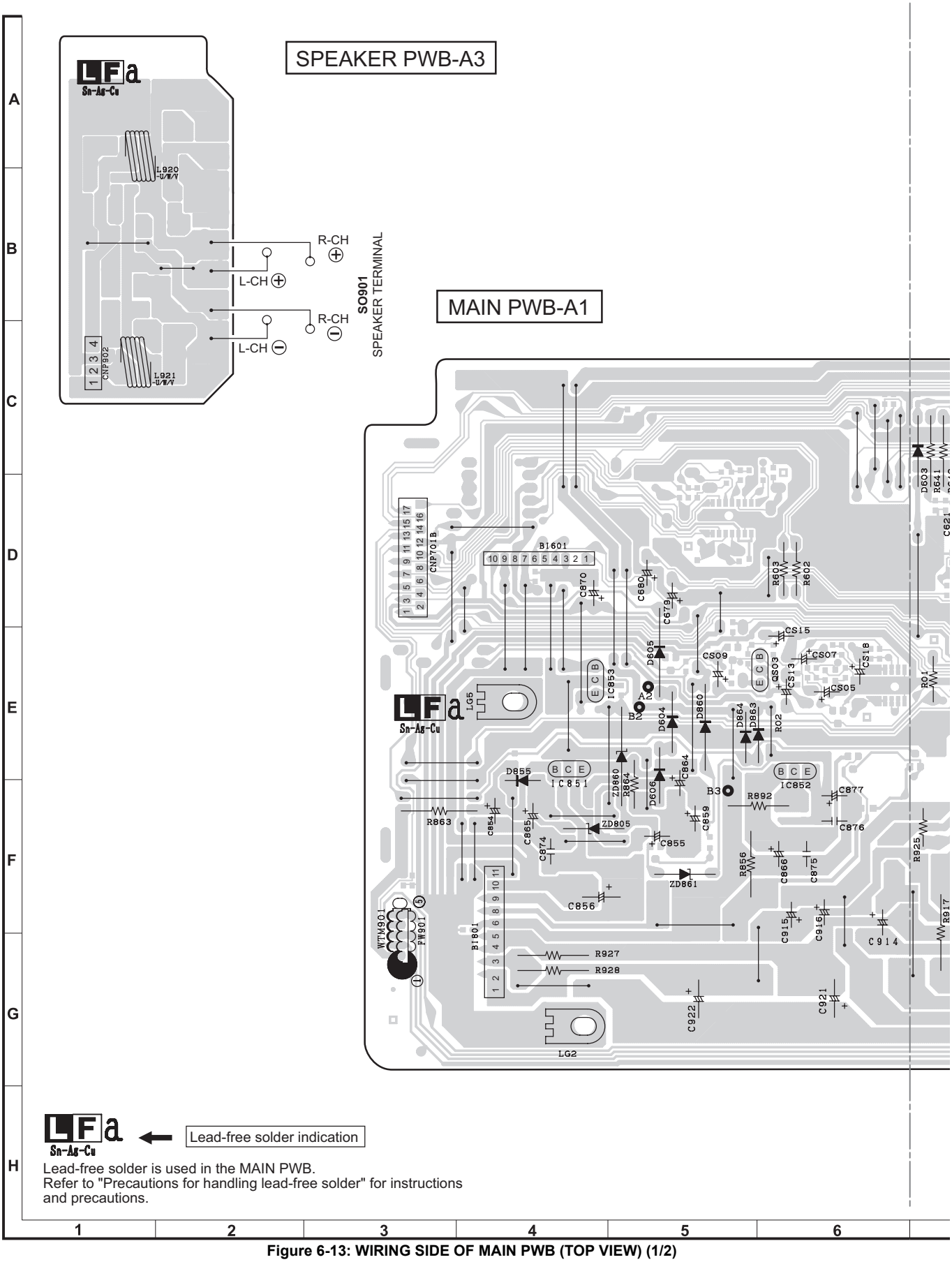
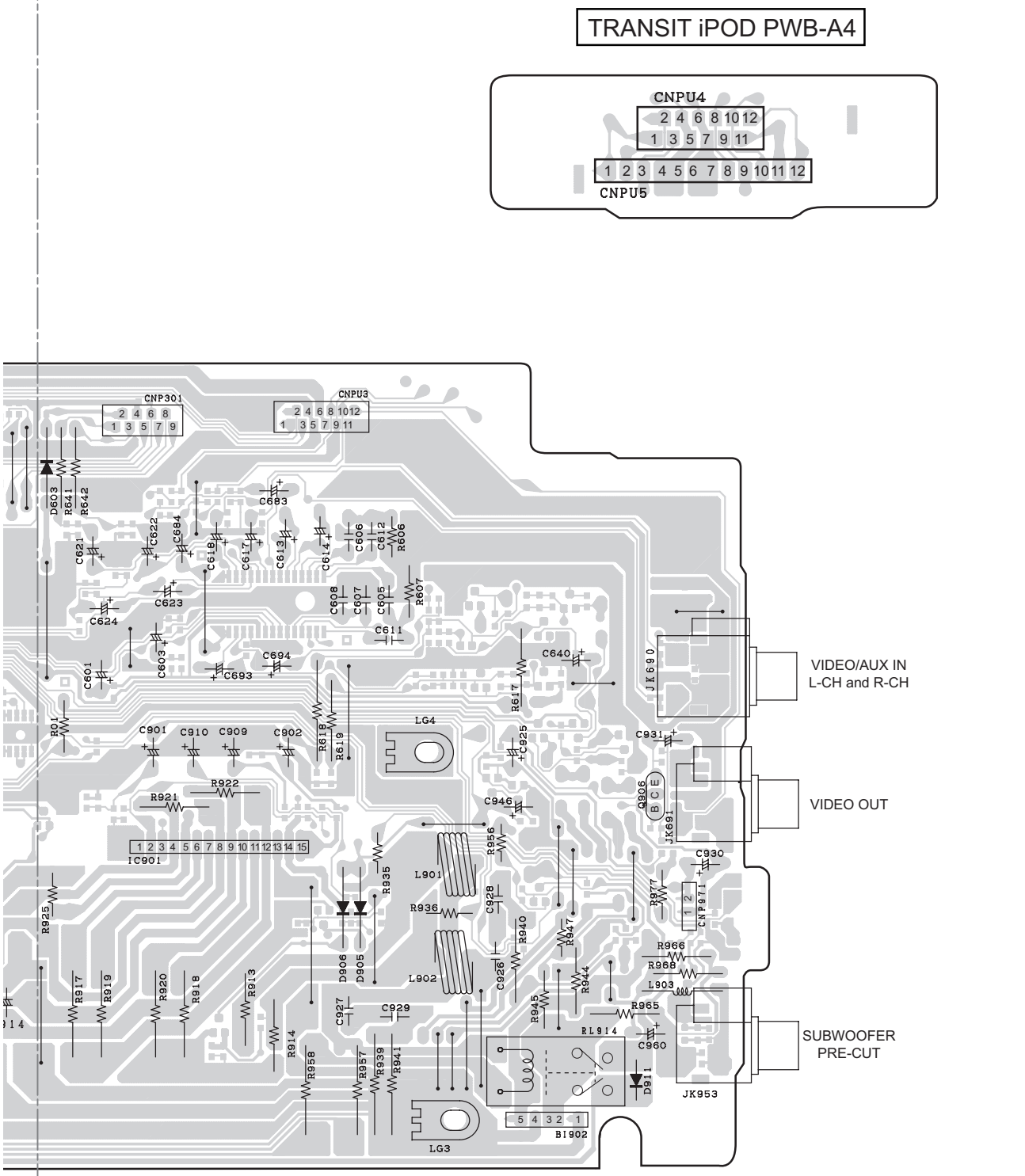
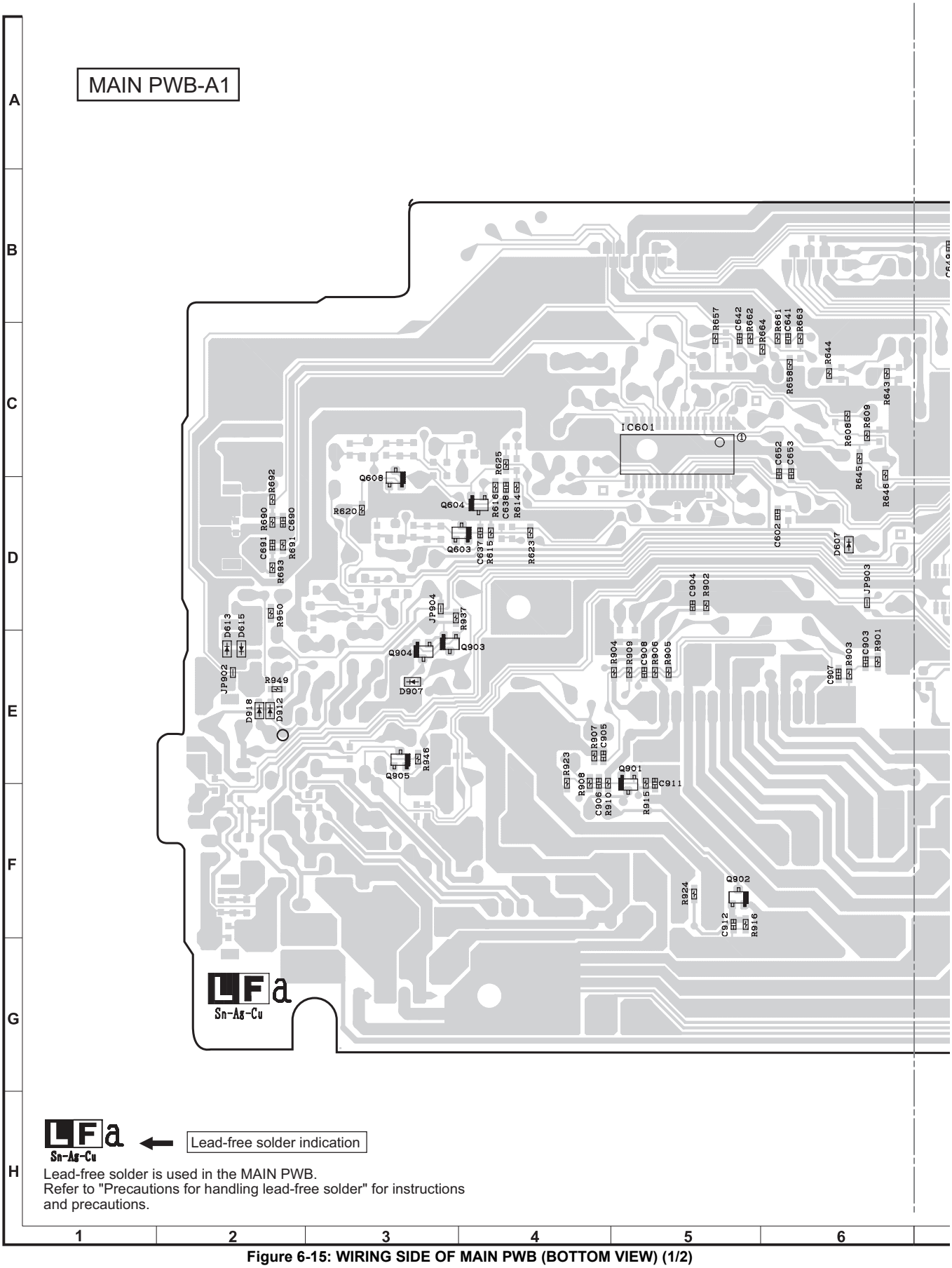


Figure 6-13: WIRING SIDE OF MAIN PWB (TOP VIEW) (1/2)



7	8	9	10	11	12

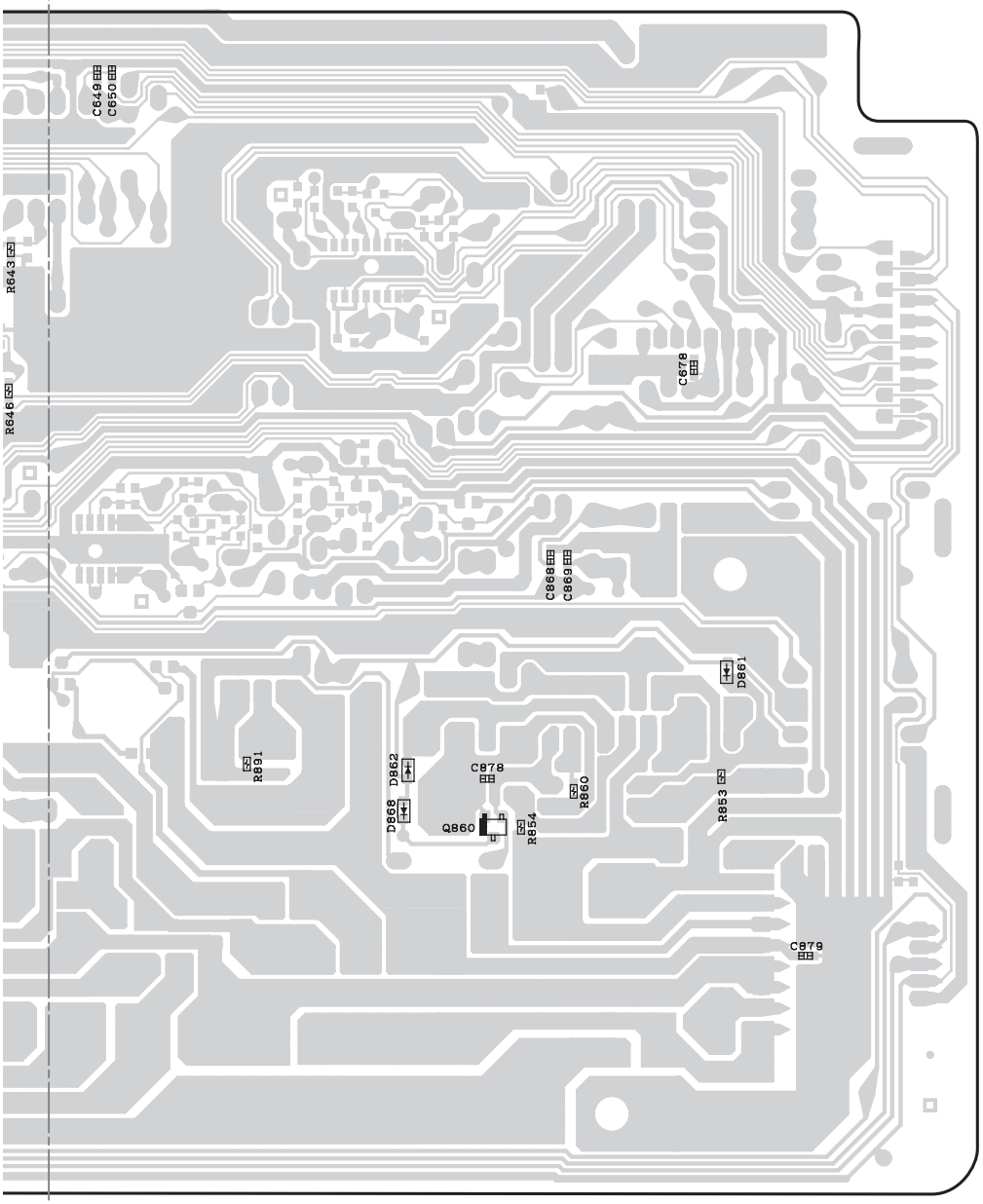
Figure 6-14: WIRING SIDE OF MAIN PWB (TOP VIEW) (2/2)



LFa Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the MAIN PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-15: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (1/2)



7 | 8 | 9 | 10 | 11 | 12

Figure 6-16: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (2/2)

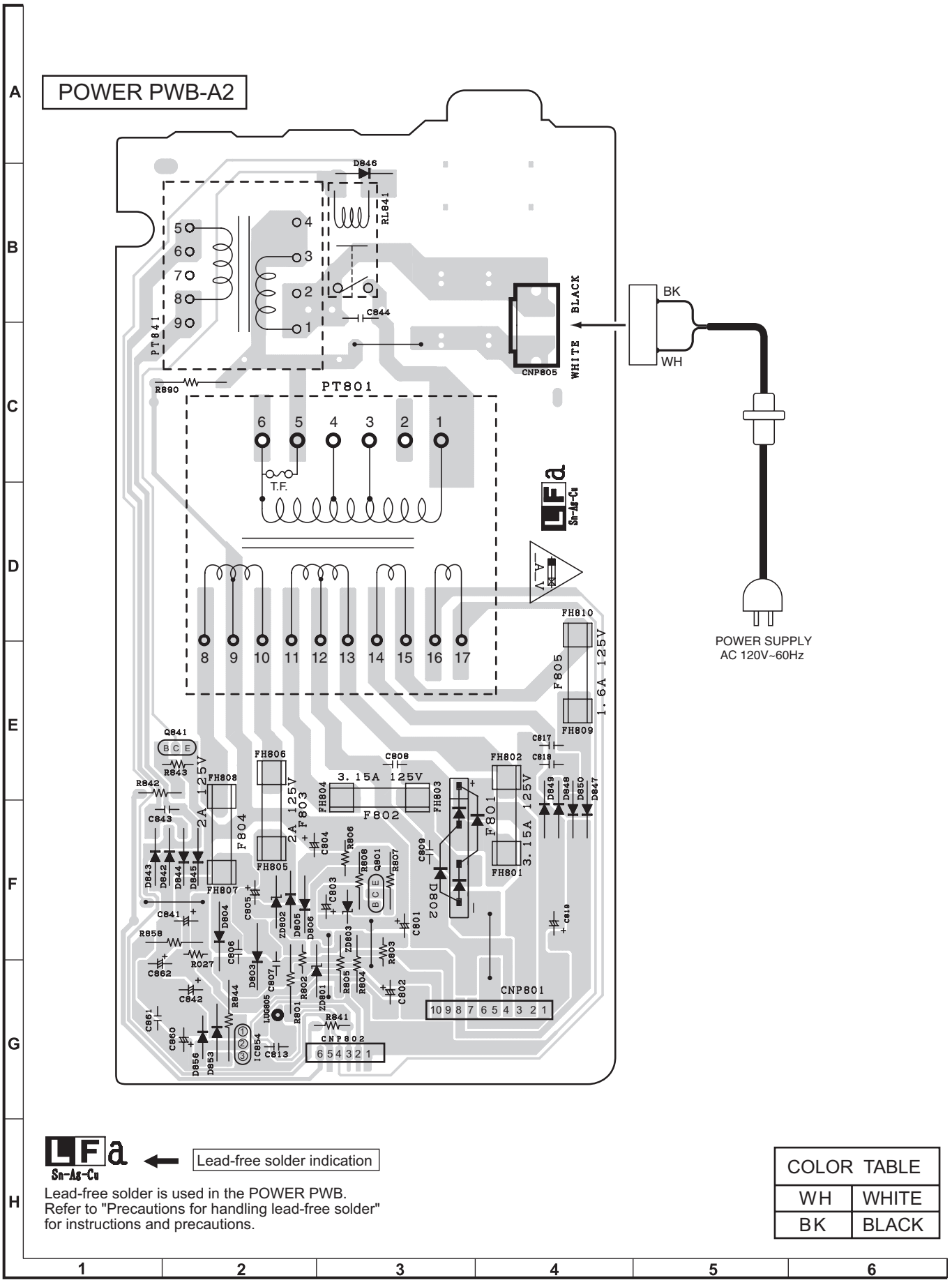
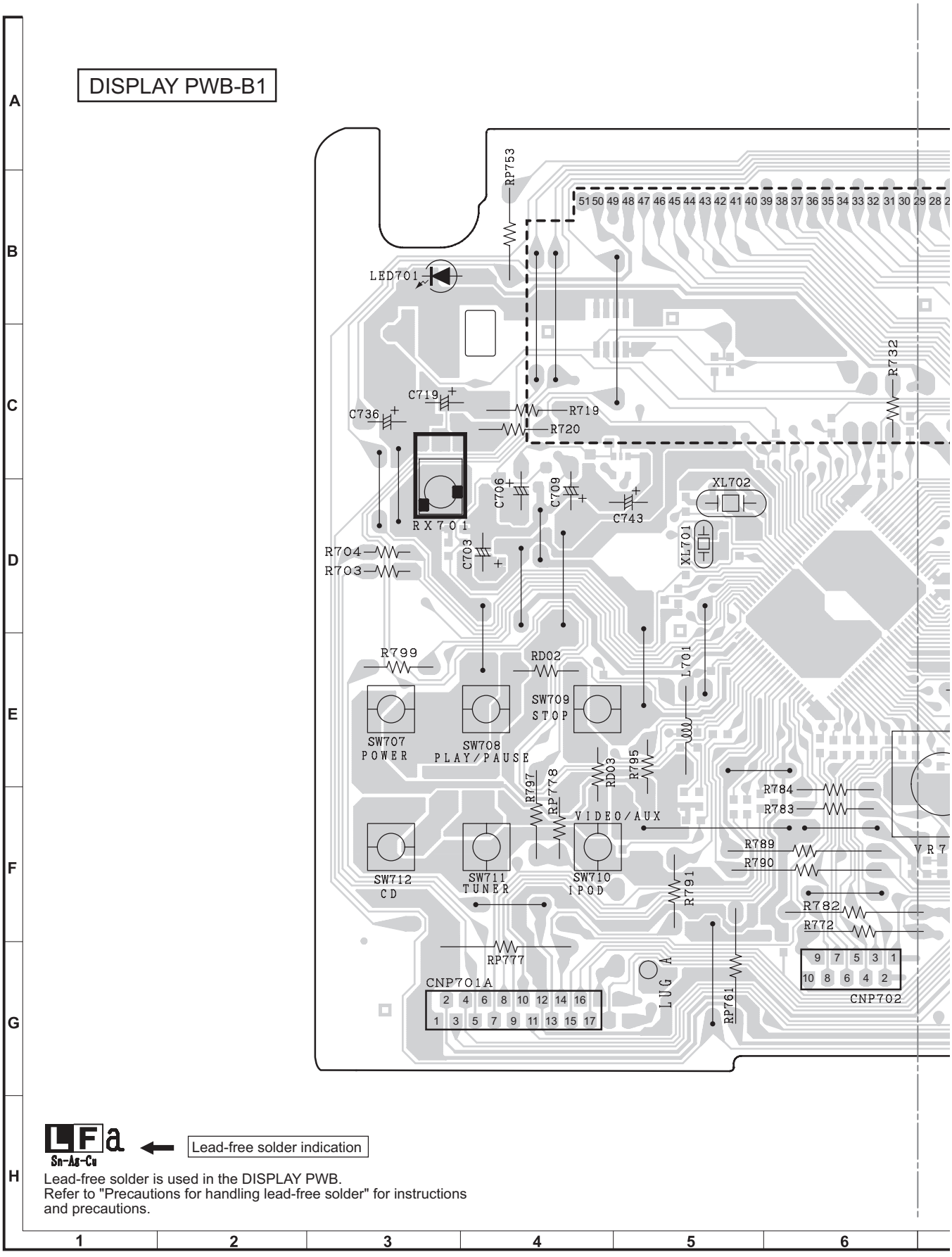


Figure 6-17: WIRING SIDE OF POWER PWB

-MEMO-

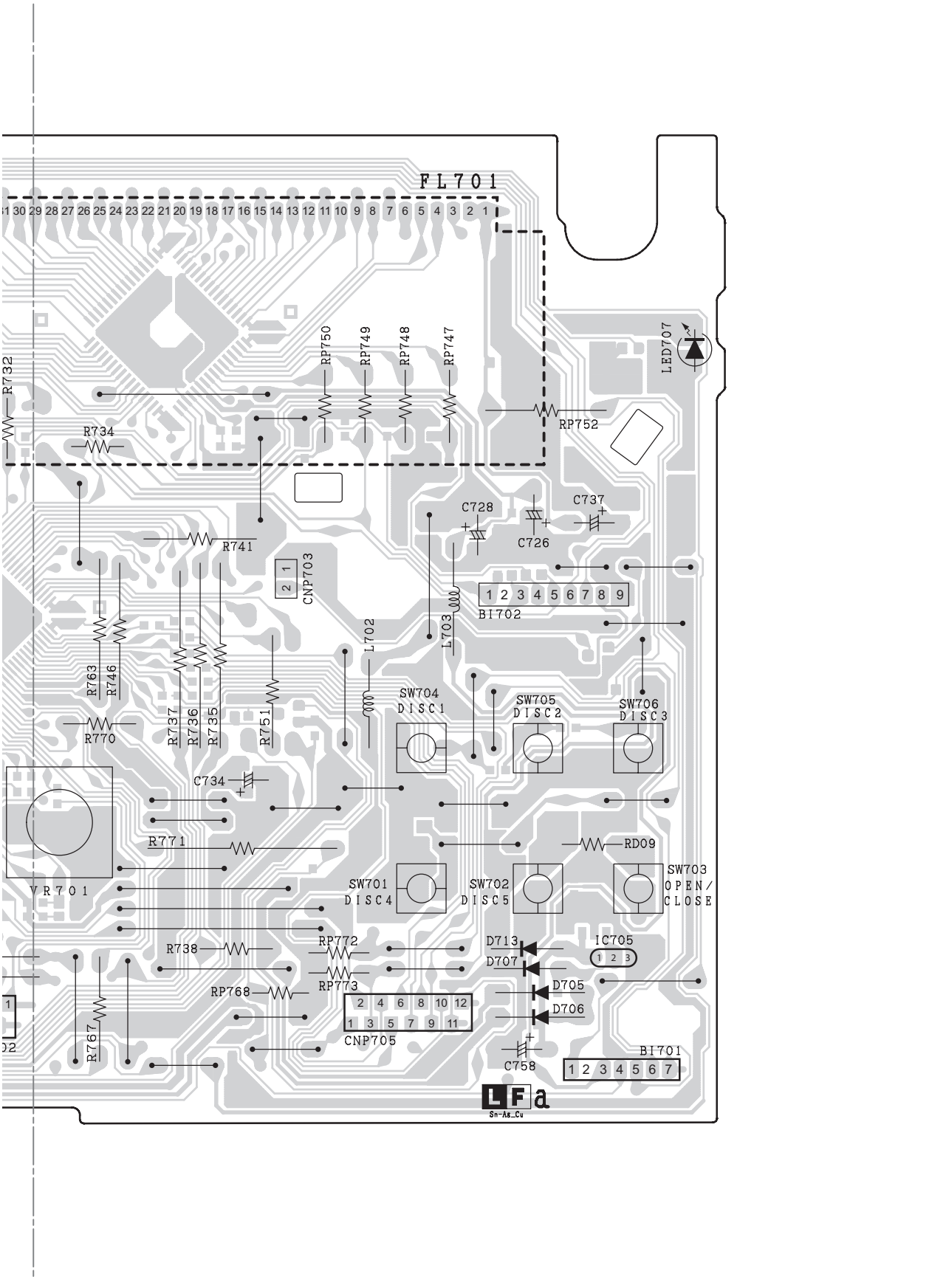
DISPLAY PWB-B1



Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the DISPLAY PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-18: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (1/2)



7 | 8 | 9 | 10 | 11 | 12

Figure 6-19: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (2/2)

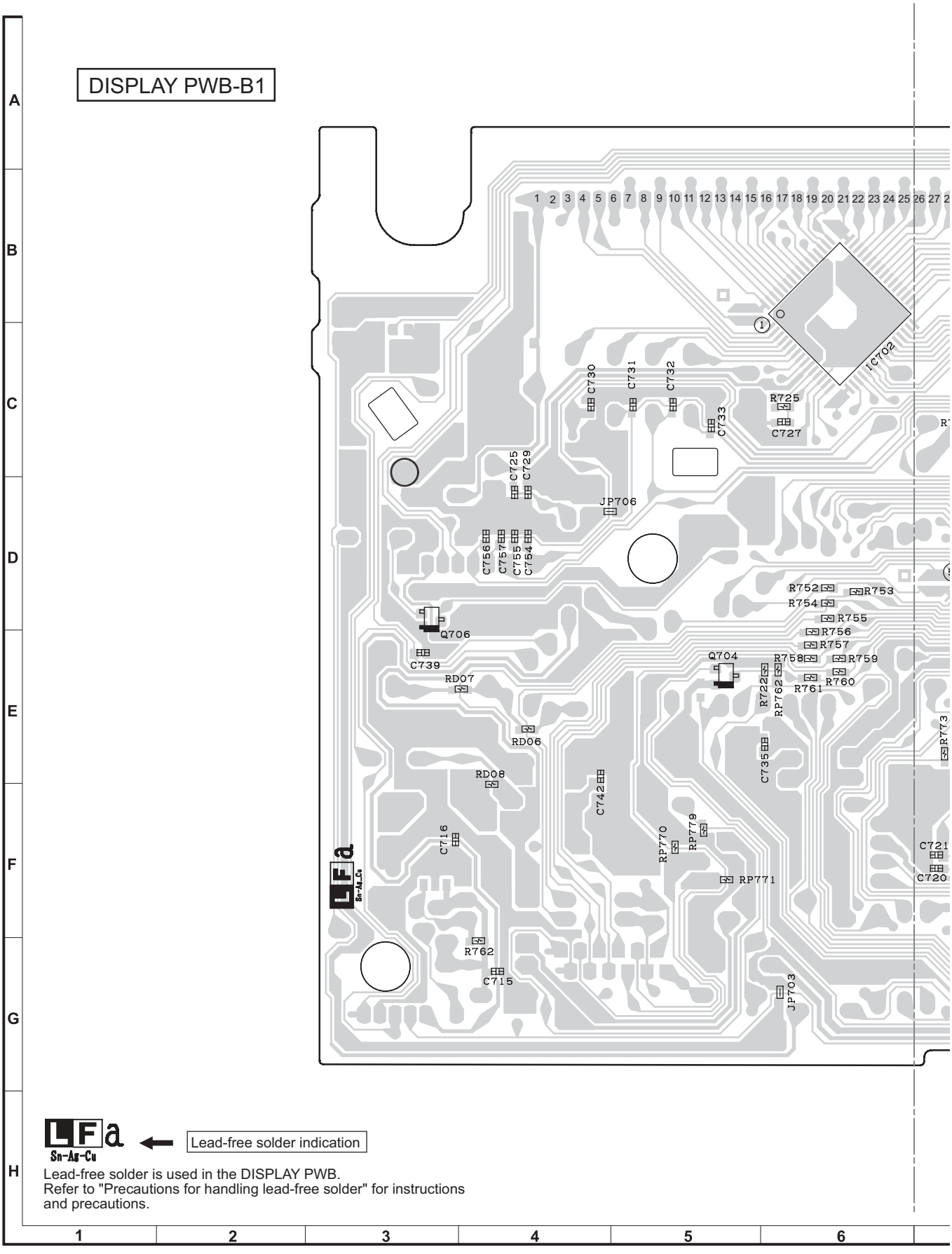


Figure 6-20: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (1/2)

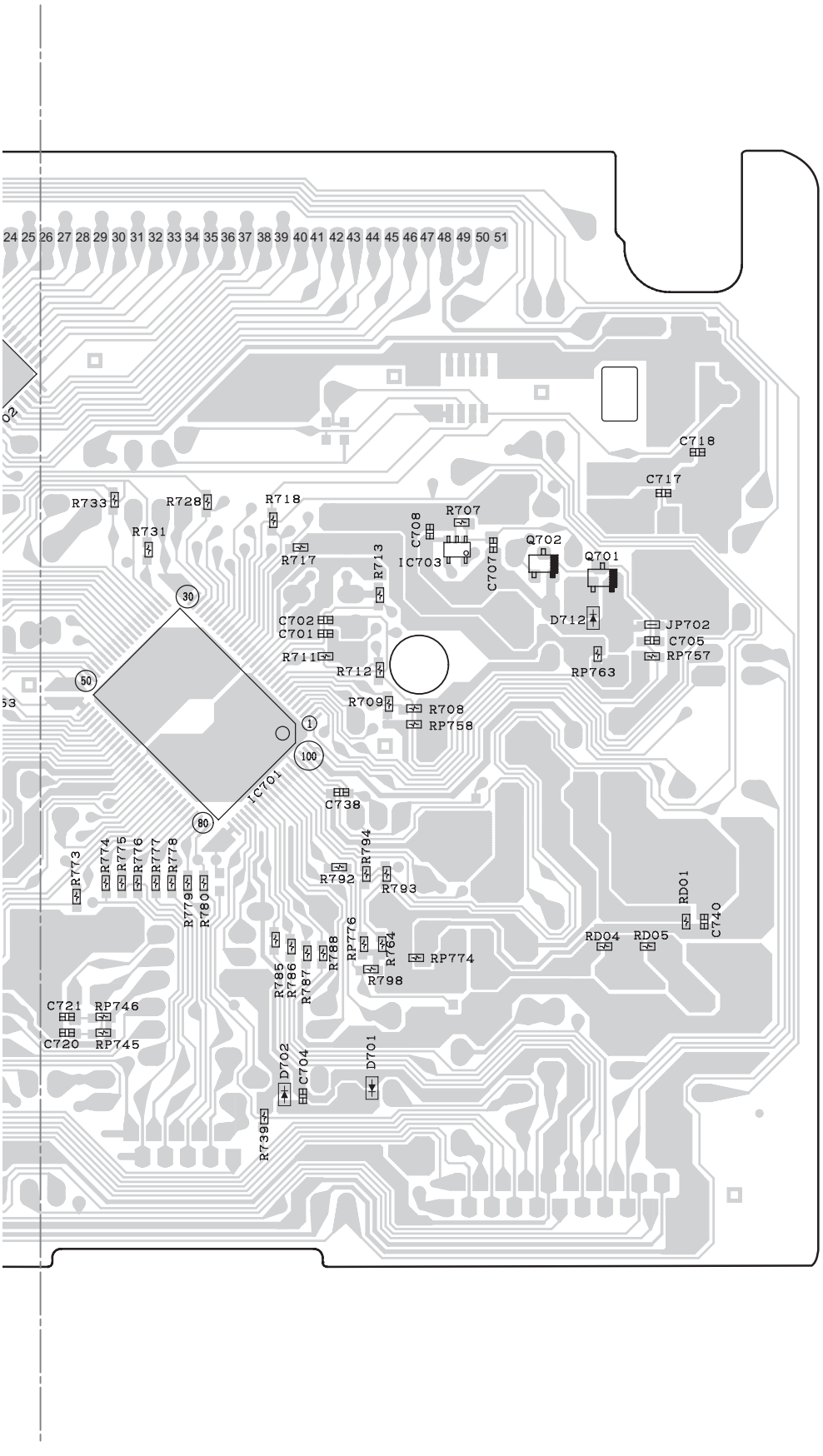


Figure 6-21: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (2/2)

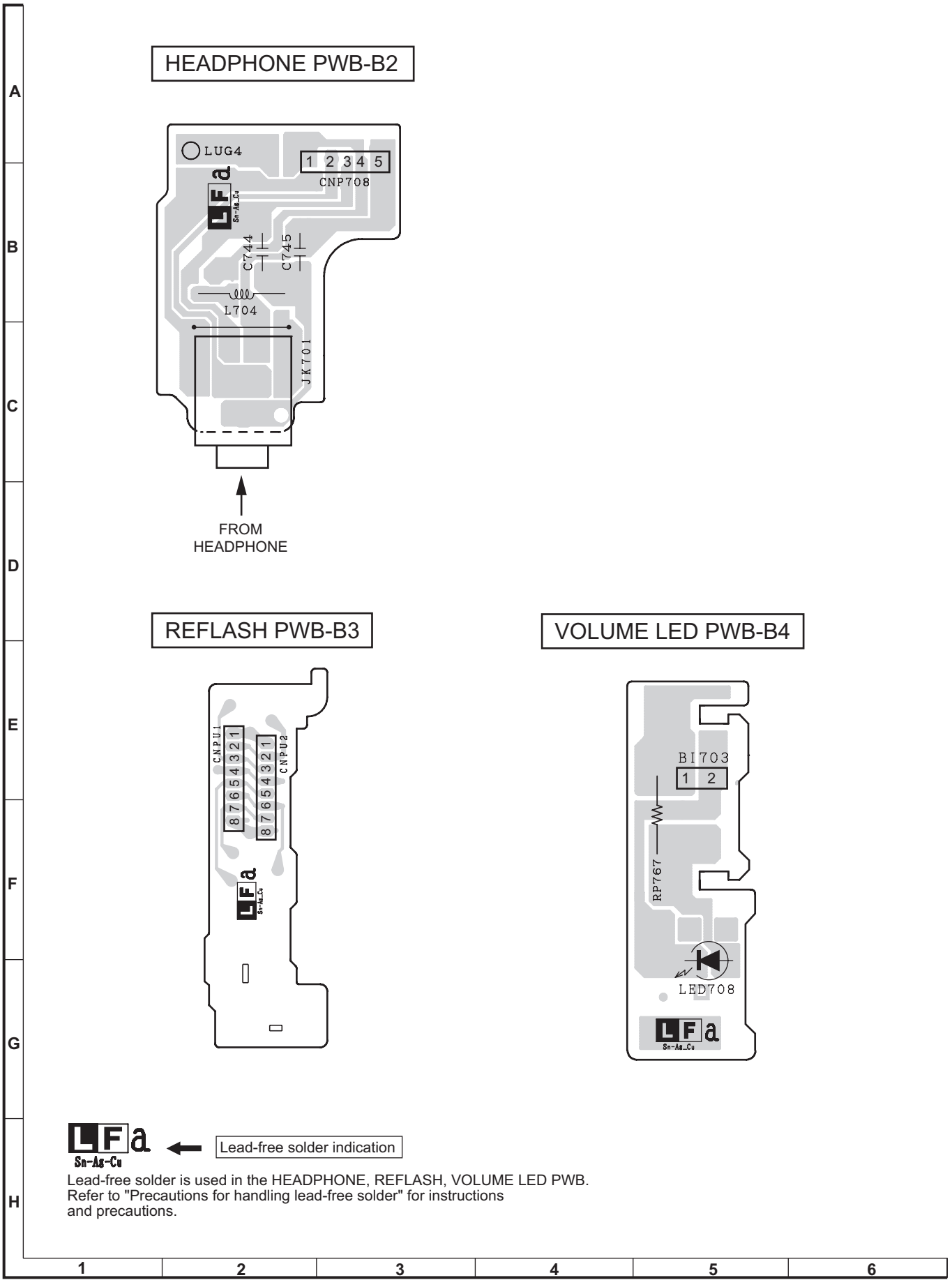
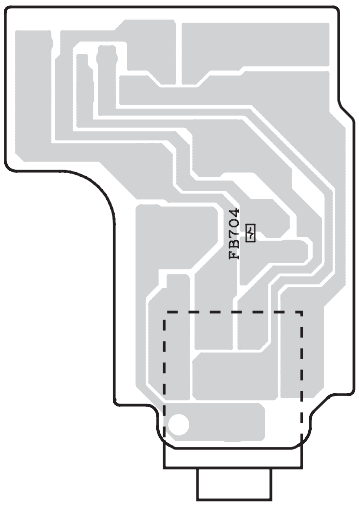
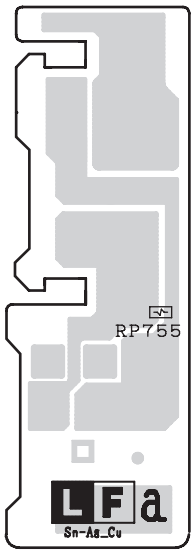


Figure 6-22: WIRING SIDE OF HEADPHONE, REFLASH, VOLUME LED PWB (TOP VIEW)

HEADPHONE PWB-B2



VOLUME LED PWB-B4



LFa Sn-Ag-Cu ← Lead-free solder indication

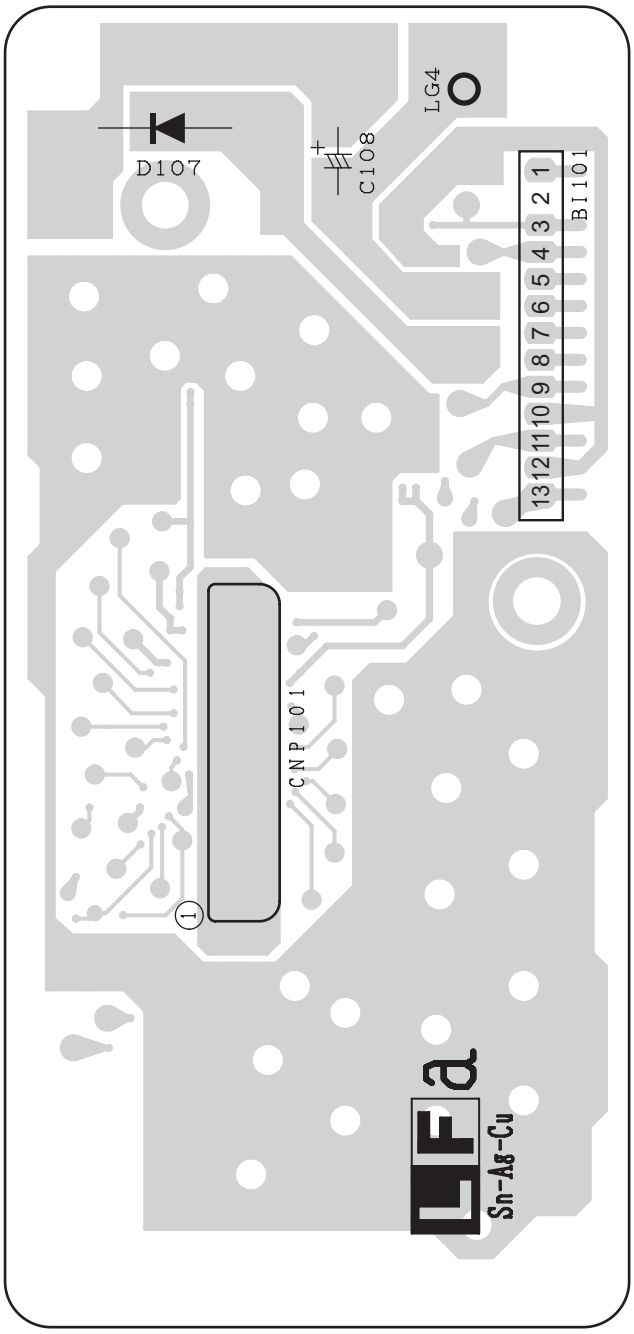
Lead-free solder is used in the HEADPHONE, VOLUME LED PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

A B C D E F G H

1 2 3 4 5 6

Figure 6-23: WIRING SIDE OF HEADPHONE, VOLUME LED PWB (BOTTOM VIEW)

iPOD PWB-C

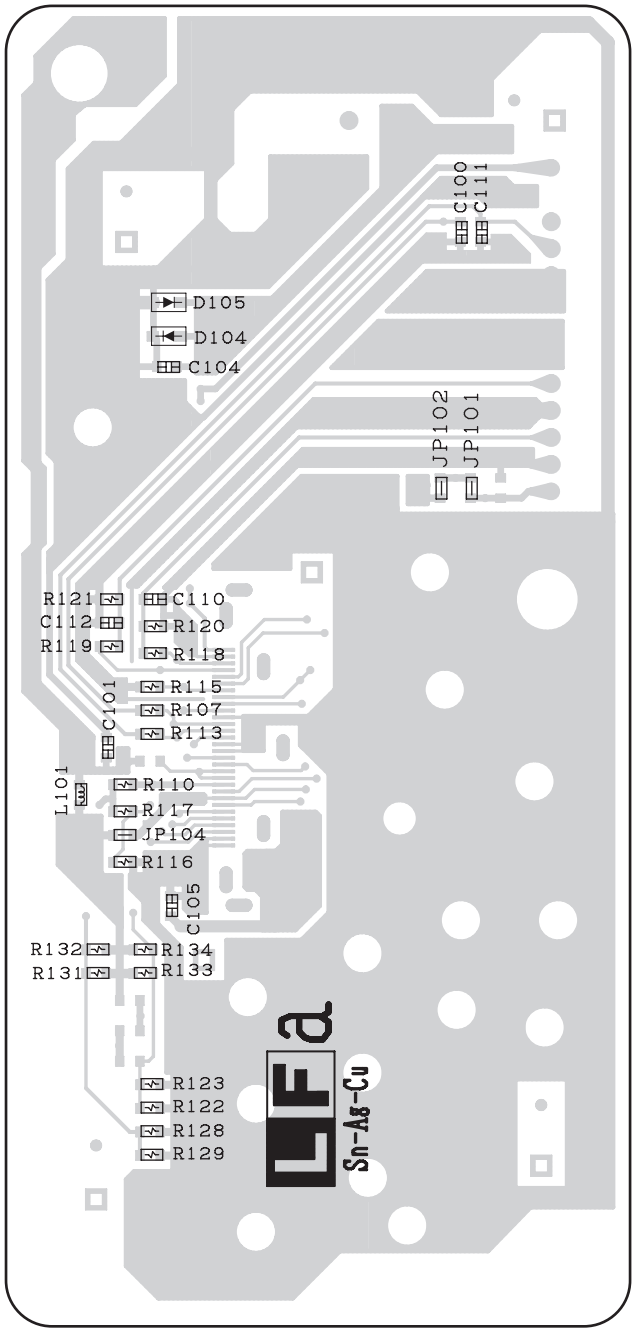


Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the iPOD PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-24: WIRING SIDE OF iPOD PWB (TOP VIEW)

iPOD PWB-C



LFa Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the iPOD PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-25: WIRING SIDE OF iPOD PWB (BOTTOM VIEW)

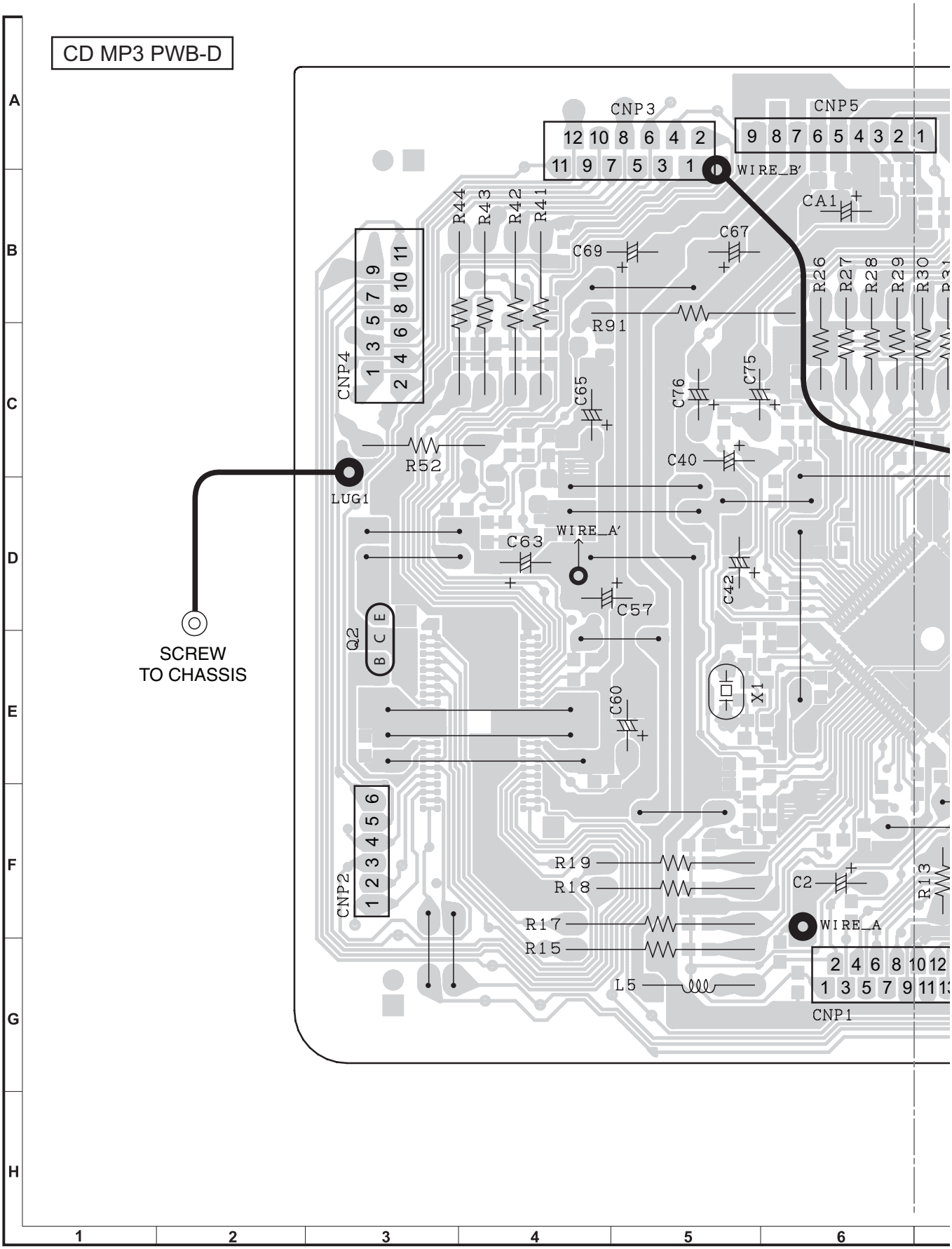
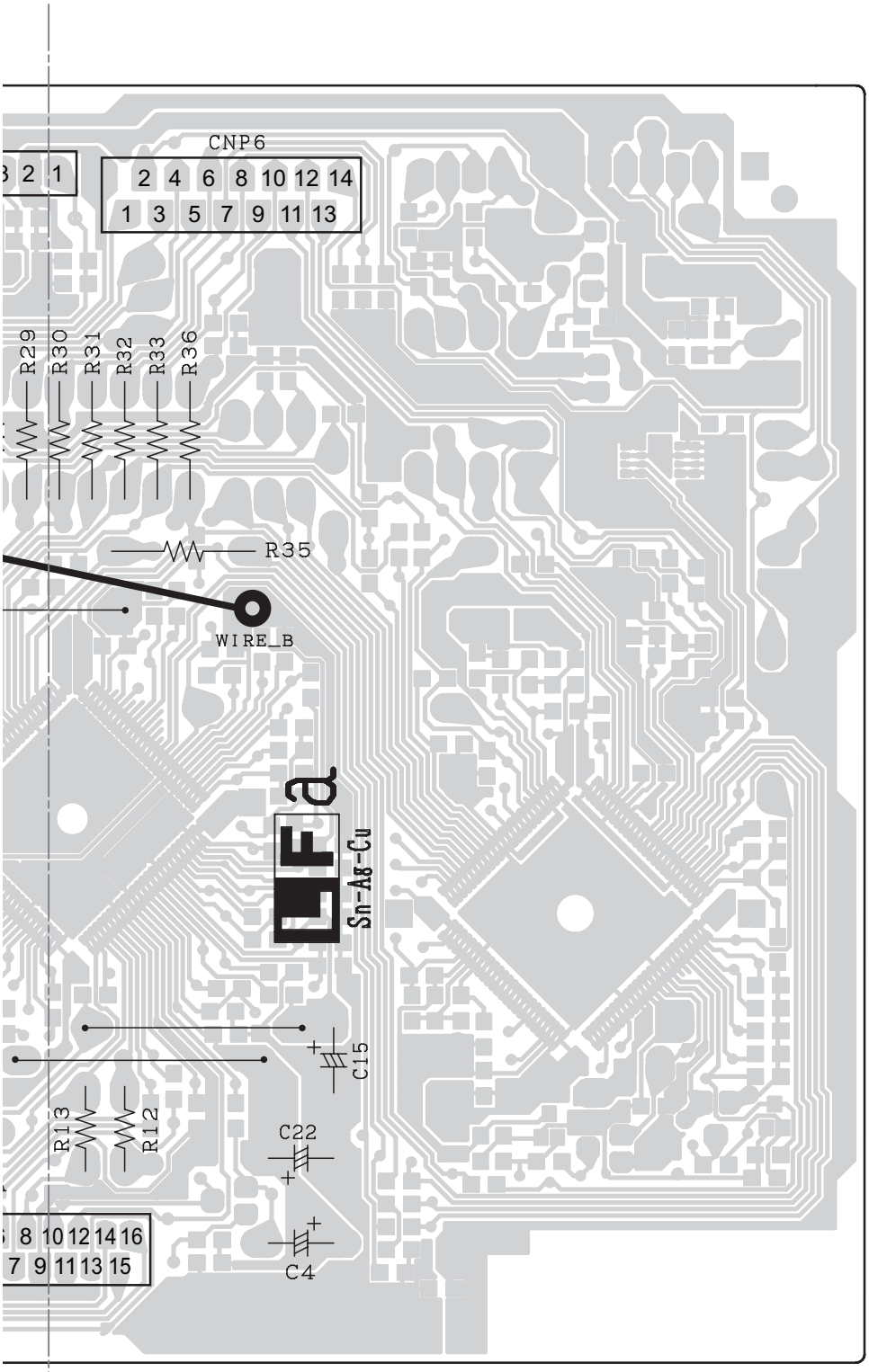


Figure 6-26: WIRING SIDE OF CD MP3 PWB (TOP VIEW) (1/2)



LFa Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the CD MP3 PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

7	8	9	10	11	12

Figure 6-27: WIRING SIDE OF CD MP3 PWB (TOP VIEW) (2/2)

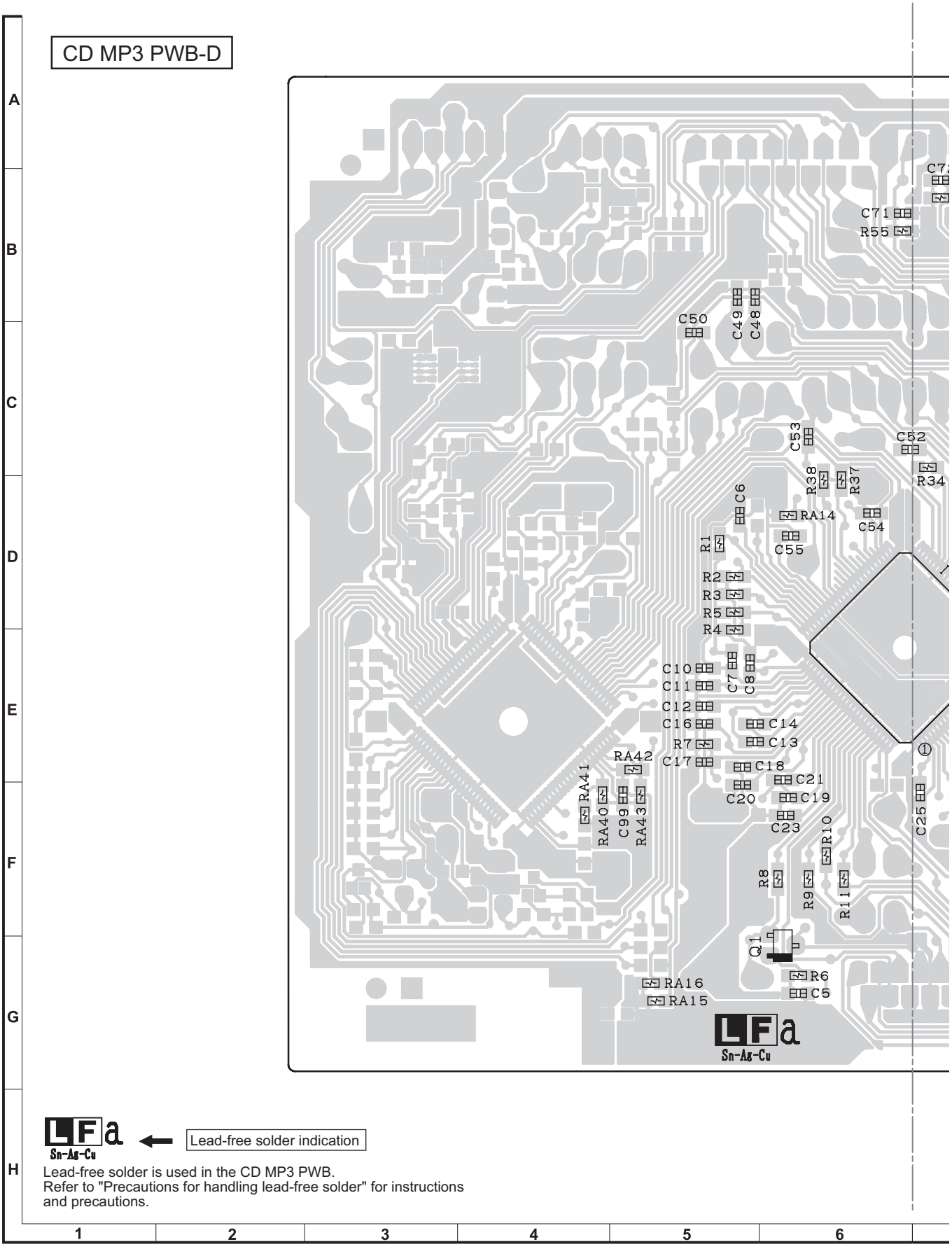
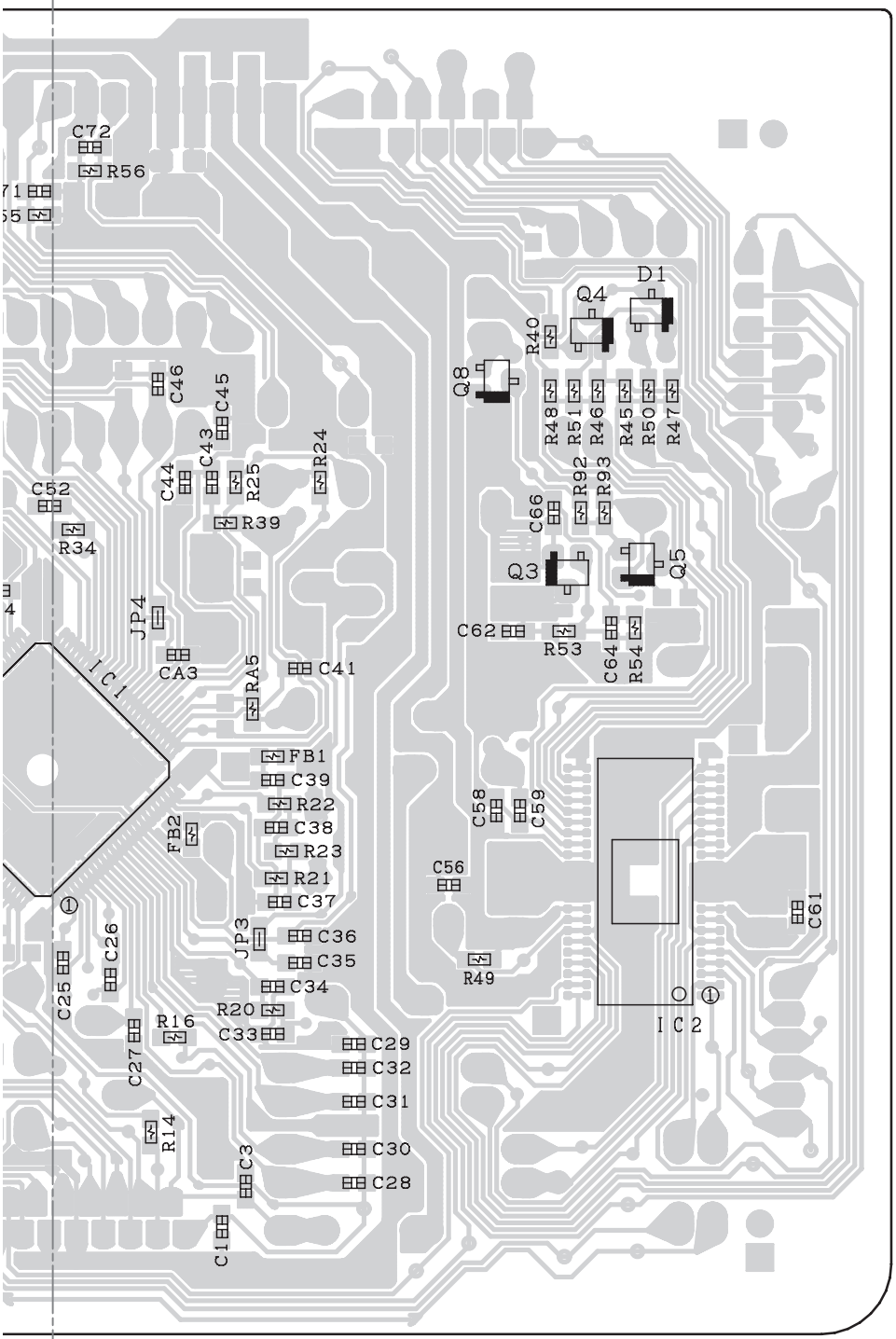


Figure 6-28: WIRING SIDE OF CD MP3 PWB (BOTTOM VIEW) (1/2)



	7	8	9	10	11	12

Figure 6-29: WIRING SIDE OF CD MP3 PWB (BOTTOM VIEW) (2/2)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

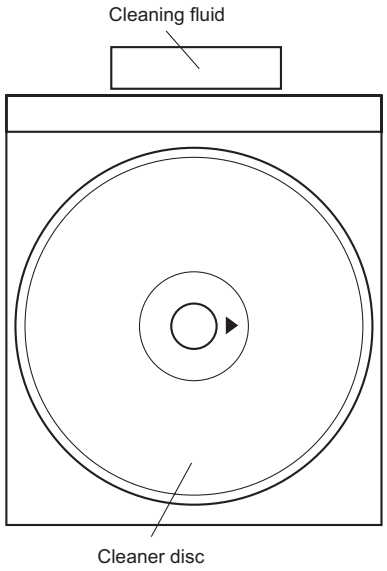
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

2. When a CD cannot be played

2.1. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check

2) Tracking system check

3) Spin system check

4) PLL system check

5) Others

(1) Focus-RF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

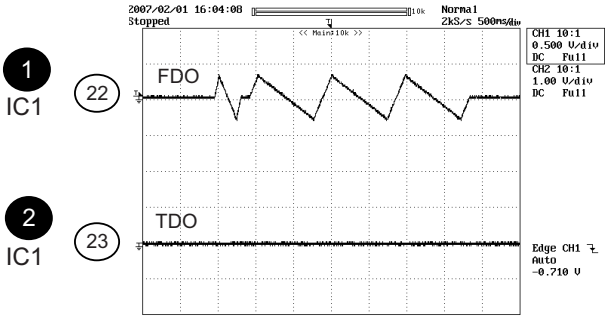


Figure 1

1. Does the pickup move to the PICKUP-IN Switch (NSW1) position?
   - No → Sled motor (NM2).
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor (NM1).

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing Figure 2)
   - No → Pins 5~9, 11, 18 19 and 22 on IC1 Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
2. Is the RF waveform normal? (Waveform drawing Figure 3)
   - No → If the level is not normal.

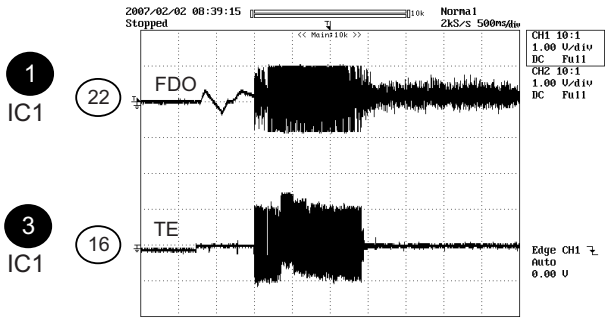


Figure 2

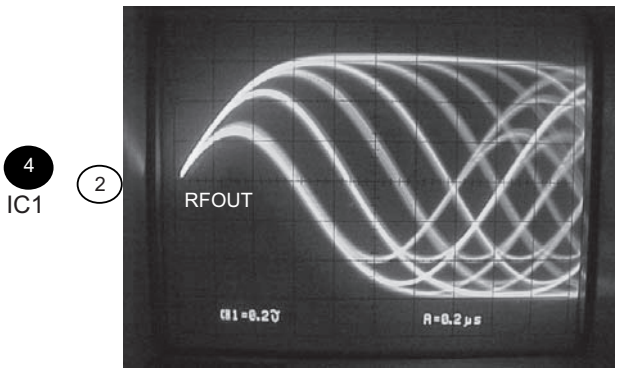


Figure 3

(2) Focus-RF system check.

Check the TE waveform at pin 16 on IC1.

If the waveform shown in Figure 4 appears and soon after NO DISC appears?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 15, 16 and 23 on IC1, and FFC1.

↓ No

"Initialization" is possible, but play is not possible?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC1.

↓ No

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pin26~30 on IC1) system.

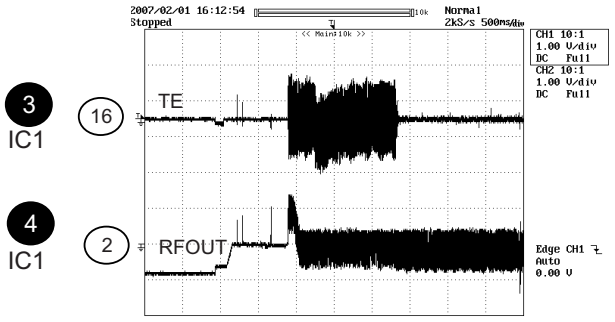


Figure 4

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little?
(Waveform drawing Figure 5)

Yes → The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate. → Check around pin 25 on IC1, pins 1 and 2 on CNP2.

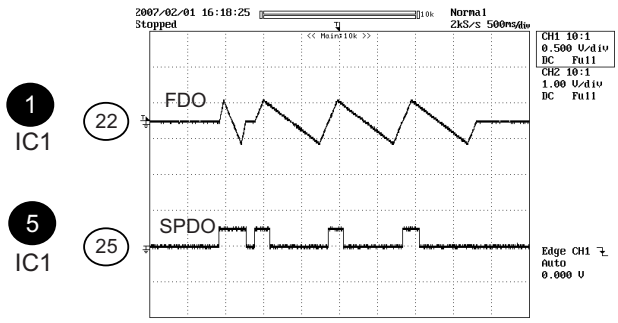


Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The RF waveform is normal, but the TOC data cannot be read.

↓

Check the PDOUT waveform. (Figure 6)

↓

Check around pins 26~30 on IC1.

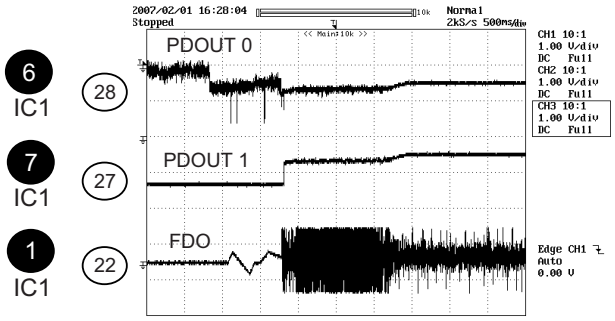


Figure 6

SHARP PARTS GUIDE

MICRO COMPONENT SYSTEM

MODEL XL-DK225

XL-DK225 Micro Component System consisting of XL-DK225 (main unit) and CP-DK225 (speaker system).

CONTENTS

[1] INTEGRATED CIRCUITS

[2] TRANSISTORS

[3] DIODES

[4] TRANSFORMERS

[5] COILS

[6] CRYSTALS / VIBRATORS

[7] CAPACITORS

[8] RESISTORS

[9] OTHER CIRCUITRY PARTS

[10] CABINET PARTS / CD MECHANISM PARTS

[11] SPEAKER BOX PARTS

[12] ACCESSORIES / PACKING PARTS

[13] P.W.B. ASSEMBLY (Not Replacement Item)

[14] OTHER SERVICE PARTS

Parts marked with " ⚠ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
IC1	VHiTC94A70FG2	BD			CD MP3 Decorder
IC2	VHiLA6261//-1	AN			CD Driver
IC601	VHiR2S15904-1	AL			Audio Pro
IC701	RH-iXA158AW00				System Microcomputer, IXA158AW
IC702	VHiM66005AHP1	AS			FL Driver
IC703	VHiPST3227N1E	AD			Reset IC
IC705	VHi6201P332-1	AE			Voltage Regulator, 3.3V
IC851	VHiAN80T53/-1	AL			Multi Regulator, AN80T53
IC852	VHiKiA7805AP1	AF			Constant Voltage Regulator, KIA7805AP
IC853	VHi6201P332-1	AE			Voltage Regulator, 3.3V
IC854	VHiKiA78L05-1	AF			Constant Voltage Regulator, KIA78L05
IC901	VHiSTK43205-1	AT			Power IC, STK432-050
[2] TRANSISTORS					
Q1	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q2	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q3	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q4	VSKRC104S//-1	AB			Digital,NPN,KRC104 S
Q5	VSKTA1544T/-1	AD			Silicon,PNP,KTA1544 T
Q8	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q603	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q604	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q608	VSKRA102S//-1	AB			Digital,PNP,KRA102 S
Q610	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q611	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q612	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q613	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q614	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q701	VSKRC104S//-1	AB			Digital,NPN,KRC104 S
Q702	VSKRC104S//-1	AB			Digital,NPN,KRC104 S
Q704	VSKRC104S//-1	AB			Digital,NPN,KRC104 S
Q706	VSKRC102S//-1	AB			Digital,NPN,KRC102 S
Q801	VSKTA1274Y/-1	AE			Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q860	VSKRC104S//-1	AB			Digital,NPN,KRC104 S
Q901	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q902	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q903	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q904	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q905	VSKTC3265Y/-1	AC			Silicon,NPN,KTC3265 Y
Q906	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
[3] DIODES					
D1	VHDKDS184//-1	AB			Silicon,KDS184
D104	VHDMA111///-1	AC			Silicon,MA111
D105	VHDMA111///-1	AC			Silicon,MA111
D603	VHDHSS4148+-1	AA			Silicon,DHSS4148
D604	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D605	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D607	VHDMA111///-1	AC			Silicon,MA111
D608	VHDMA111///-1	AC			Silicon,MA111
D609	VHDMA111///-1	AC			Silicon,MA111
D610	VHDMA111///-1	AC			Silicon,MA111
D611	VHDMA111///-1	AC			Silicon,MA111
D613	VHDMA111///-1	AC			Silicon,MA111
D615	VHDMA111///-1	AC			Silicon,MA111
D701	VHDMA111///-1	AC			Silicon,MA111
D702	VHDMA111///-1	AC			Silicon,MA111
D705	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D706	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D707	VHDHSS4148+-1	AA			Silicon,DHSS4148
D712	VHDMA111///-1	AC			Silicon,MA111
D713	VHDHSS4148+-1	AA			Silicon,DHSS4148
D802	VHDTS4B05GM-1	AG			Rectifier, 4B05GM
D803	VHDGDRL204F-1	AC			Silicon,RL204F
D804	VHDGDRL204F-1	AC			Silicon,RL204F
D805	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D806	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D842	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D843	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D844	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D845	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D846	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D847	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D848	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D849	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D850	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D853	VHD1N4004S/-1	AB			Silicon,DS1N4004S
D855	VHDHSS4148+-1	AA			Silicon,DHSS4148
D856	VHDHSS4148+-1	AA			Silicon,DHSS4148
D860	VHDHSS4148+-1	AA			Silicon,DHSS4148
D861	VHDMA111///-1	AC			Silicon,MA111
D862	VHDMA111///-1	AC			Silicon,MA111
D863	VHDHSS4148+-1	AA			Silicon,DHSS4148
D864	VHDHSS4148+-1	AA			Silicon,DHSS4148
D868	VHDMA111///-1	AC			Silicon,MA111

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
D905	VHDMA111///-1	AC			Silicon,MA111
D906	VHDMA111///-1	AC			Silicon,MA111
D907	VHDMA111///-1	AC			Silicon,MA111
D911	VHDHSS4148+-1	AA			Silicon,DHSS4148
D912	VHDMA111///-1	AC			Silicon,MA111
D913	VHDMA111///-1	AC			Silicon,MA111
D914	VHDHSS4148+-1	AA			Silicon,DHSS4148
D918	VHDMA111///-1	AC			Silicon,MA111
LED701	VHPSLR343VC3F	AC			LED,Red,SLR343VC3F
LED708	VHP503BC2E30Z	AG			LED,Blue,504BC2E30
ZD801	VHEZJ6R2A++1E	AB			Zener, 6.2V
ZD802	VHEZJ8R2A++1E	AB			Zener, 8.2V
ZD803	VHEZJ30B+++1E	AB			Zener, 30V
ZD805	VHEZJ15B+++1E	AB			Zener, 15V
ZD860	VHEZJ11B+++1E	AB			Zener, 11V
ZD861	VHEZJ6R8B++1E	AB			Zener, 6.8V
[4] TRANSFORMERS					
⚠ PT801	RTRNPA088AWZZ	BD			Power (Main)
⚠ PT841	RTRNP0483AWZZ	AL			Power (Sub)
[5] COILS					
FB1	RBLN-0061TAZZ	AB			Chip Ferrite Core
FB2	RBLN-0061TAZZ	AB			Chip Ferrite Core
L701	VP-DH220K0000	AB			22µH,Peaking
L702	VP-DH220K0000	AB			22µH,Peaking
L703	VP-DH470K0000	AB			47µH,Peaking
L901	RCILZA017AWZZ	AB			0.29 µH
L902	RCILZA017AWZZ	AB			0.29 µH
L903	VP-DH2R2K0000	AB			2.2µH,Peaking
[6] CRYSTALS / VIBRATORS					
X1	RCRSP0020AWZZ	AG			Crystal,16.93 MHz
XL701	RCRSPA010AWZZ	AE			Crystal,32.768 KHz
XL702	RCRM-A002AWZZ	AD			Resonator,9.83 MHz
[7] CAPACITORS					
C1	VCKYCY1CB104K	AB			0.1 µF,16V
C2	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C3	VCKYCY1CB104K	AB			0.1 µF,16V
C4	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C5	VCKYCY1CB104K	AB			0.1 µF,16V
C6	VCKYCY1CB104K	AB			0.1 µF,16V
C7	VCCCCY1HH470J	AA			47pF(CH),50V
C8	VCKYCY1HB153K	AA			0.015 µF,50V
C10	VCKYCY1CB104K	AB			0.1 µF,16V
C11	VCKYCY1HB103K	AA			0.01 µF,50V
C12	VCKYCY1HB103K	AA			0.01 µF,50V
C13	VCKYCY1HB472K	AA			0.0047 µF,50V
C14	VCKYCY1CB104K	AB			0.1 µF,16V
C15	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C16	VCKYCY1CB104K	AB			0.1 µF,16V
C17	VCKYCY1HB103K	AA			0.01 µF,50V
C18	VCKYCY1CB104K	AB			0.1 µF,16V
C19	VCCCCY1HH680J	AA			68pF(CH),50V
C20	VCKYCY1HB153K	AA			0.015 µF,50V
C21	VCKYCY1CB104K	AB			0.1 µF,16V
C22	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C23	VCKYCY1CB104K	AB			0.1 µF,16V
C25	VCKYCY1HB333K	AB			0.033 µF,50V
C26	VCKYCY1HB333K	AB			0.033 µF,50V
C27	VCKYCY1CB104K	AB			0.1 µF,16V
C28	VCCCCY1HH471J	AA			470pF(CH),50V
C29	VCKYCY1CB104K	AB			0.1 µF,16V
C30	VCCCCY1HH471J	AA			470pF(CH),50V
C31	VCKYCY1HB473K	AB			0.047 µF,50V
C32	VCKYCY1HB473K	AB			0.047 µF,50V
C33	VCKYCY1CB104K	AB			0.1 µF,16V
C34	VCCCCY1HH222J	AA			2200pF(CH),50V
C35	VCKYCY1CB104K	AB			0.1 µF,16V
C36	VCKYCY1CB104K	AB			0.1 µF,16V
C37	VCCCCY1HH150J	AA			15pF(CH),50V
C38	VCCCCY1HH150J	AA			15pF(CH),50V
C39	VCKYCY1CB104K	AB			0.1 µF,16V
C40	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C41	VCKYCY1CB104K	AB			0.1 µF,16V
C42	VCEAZA1CW226M	AC			22 µF,16V,Electrolytic
C43	VCKYCY1CB104K	AB			0.1 µF,16V
C44	VCKYCY1CB104K	AB			0.1 µF,16V
C45	VCKYCY1HB103K	AA			0.01 µF,50V
C46	VCKYCY1CB104K	AB			0.1 µF,16V
C48	VCCCCY1HH101J	AA			100pF(CH),50V
C49	VCCCCY1HH101J	AA			100pF(CH),50V
C50	VCCCCY1HH101J	AA			100pF(CH),50V
C51	VCCCCY1HH101J	AA			100pF(CH),50V
C52	VCCCCY1HH101J	AA			100pF(CH),50V
C53	VCCCCY1HH101J	AA			100pF(CH),50V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C54	VCKYCY1CB104K	AB			0.1 µF,16V
C55	VCKYCY1CB104K	AB			0.1 µF,16V
C56	VCKYCY1CB104K	AB			0.1 µF,16V
C57	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C58	VCKYCY1CB104K	AB			0.1 µF,16V
C59	VCKYCY1CB104K	AB			0.1 µF,16V
C60	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C61	VCKYCY1CB104K	AB			0.1 µF,16V
C62	VCKYCY1CB104K	AB			0.1 µF,16V
C63	VCEAZA0JW108M	AC			1000 µF,6.3V,Electrolytic
C64	VCKYCY1CB104K	AB			0.1 µF,16V
C65	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C66	VCKYCY1CB104K	AB			0.1 µF,16V
C67	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C69	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C71	VCCCCY1HH101J	AA			100pF(CH),50V
C72	VCCCCY1HH101J	AA			100pF(CH),50V
C75	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C76	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C100	VCCCCY1HH101J	AA			100pF(CH),50V
C101	VCKYCY1HB104K	AB			0.1 µF,50V
C104	VCKYCY1HB104K	AB			0.1 µF,50V
C105	VCKYCY1HB104K	AB			0.1 µF,50V
C108	RC-EZD226AF1C	AB			22 µF,16V,Electrolytic
C110	VCKYCY1HB102K	AA			0.001 µF,50V
C111	VCCCCY1HH101J	AA			100pF(CH),50V
C112	VCKYCY1HB102K	AA			0.001 µF,50V
C601	VCEAZA1CW227M	AC			220 µF,16V,Electrolytic
C602	VCKYCY1EF223Z	AB			0.022 µF,25V
C603	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C605	VCFYFA1HA683J	AB			0.068 µF,50V,Thin Film
C606	VCFYFA1HA683J	AB			0.068 µF,50V,Thin Film
C607	VCQYKA1HM332K	AA			0.0033 µF,50V,Mylar
C608	VCQYKA1HM332K	AA			0.0033 µF,50V,Mylar
C611	VCFYFA1HA124J	AB			0.12 µF,50V,Thin Film
C612	VCFYFA1HA124J	AB			0.12 µF,50V,Thin Film
C613	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C614	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C617	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C618	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C621	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C622	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C623	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C624	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C637	VCKYCY1HB102K	AA			0.001 µF,50V
C638	VCKYCY1HB102K	AA			0.001 µF,50V
C640	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C641	VCKYCY1HB102K	AA			0.001 µF,50V
C642	VCKYCY1HB102K	AA			0.001 µF,50V
C646	VCKYCY1HB102K	AA			0.001 µF,50V
C647	VCKYCY1HB102K	AA			0.001 µF,50V
C648	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C649	VCCCCY1HH101J	AA			100pF(CH),50V
C650	VCCCCY1HH101J	AA			100pF(CH),50V
C652	VCKYCY1HB221K	AA			220 pF,50V
C653	VCKYCY1HB221K	AA			220 pF,50V
C677	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C678	VCKYCY1HB103K	AA			0.01 µF,50V
C683	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C684	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C690	VCKYCY1HB391K	AA			390pF,50V
C691	VCKYCY1HB391K	AA			390 pF,50V
C693	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C694	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C701	VCCCCY1HH150J	AA			15pF(CH),50V
C702	VCCCCY1HH180J	AA			18pF(CH),50V
C703	VCEAZU0JW108M	AC			1000 µF,6.3V,Electrolytic
C704	VCCCCY1HH101J	AA			100pF(CH),50V
C705	VCKYCY1HB103K	AA			0.01 µF,50V
C706	RC-EZD475AF1H	AB			4.7 µF,50V,Electrolytic
C707	VCKYCY1HB103K	AA			0.01 µF,50V
C708	VCKYCY1EF104Z	AA			0.1 µF,25V
C709	RC-EZD106AF1C	AB			10 µF,16V,Electrolytic
C715	VCKYCY1CF105Z	AB			1 µF,16V
C716	VCKYCY1CF105Z	AB			1 µF,16V
C717	VCCCCY1HH151J	AA			150pF(CH),50V
C718	VCKYCY1EF223Z	AB			0.022 µF,25V
C719	RC-EZD476AF1C	AC			47 µF,16V,Electrolytic
C720	VCKYCY1HB102K	AA			0.001 µF,50V
C721	VCKYCY1HB102K	AA			0.001 µF,50V
C725	VCCCCY1HH271J	AA			270pF(CH),50V
C726	VCEAZA1HW474M	AB			0.47 µF,50V,Electrolytic
C727	VCCCCY1HH820J	AA			82pF(CH),50V
C728	VCEAZA1HW226M	AC			22 µF,50V,Electrolytic
C729	VCKYCY1EF104Z	AA			0.1 µF,25V
C730	VCKYCY1HB103K	AA			0.01 µF,50V
C731	VCCCCY1HH271J	AA			270pF(CH),50V
C732	VCCCCY1HH271J	AA			270pF(CH),50V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C733	VCCCCY1HH271J	AA			270pF(CH),50V
C734	VCEAZA1HW106M	AC			10 µF,50V,Electrolytic
C735	VCKYCY1EF104Z	AA			0.1 µF,25V
C736	RC-EZD105AF1H	AB			1 µF,50V,Electrolytic
C737	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C738	VCKYCY1EF104Z	AA			0.1 µF,25V
C739	VCKYCY1HB222K	AA			0.0022 µF,50V
C740	VCKYCY1HB222K	AA			0.0022 µF,50V
C742	VCKYCY1HB222K	AA			0.0022 µF,50V
C743	RC-EZD107AF1A	AB			100 µF,10V,Electrolytic
C754	VCCCCY1HH101J	AA			100pF(CH),50V
C755	VCCCCY1HH101J	AA			100pF(CH),50V
C756	VCCCCY1HH101J	AA			100pF(CH),50V
C757	VCCCCY1HH101J	AA			100pF(CH),50V
C758	VCEAZA1HW106M	AC			10 µF,50V,Electrolytic
C801	VCEAZA1VW107M	AC			100 µF,35V,Electrolytic
C802	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C803	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C804	VCEAZA1JW227M	AD			220 µF,63V,Electrolytic
C805	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C806	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C807	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C808	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C809	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C817	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C818	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C819	VCEAZA1EW108M	AE			1000 µF,25V,Electrolytic
C841	VCEAZA0JW108M	AC			1000 µF,6.3V,Electrolytic
C842	VCEAZA1EW477M	AD			470 µF,25V,Electrolytic
C843	VCQYKA1HM473K	AB			0.1 µF,50V,Mylar
⚠ C844	RC-KZ002LAWZZ	AC			4700 pF, 250V
C854	VCEAZA1CW107M	AC			100 µF,16V,Electrolytic
C855	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C856	VCEAZW1EW688M	AL			6800µF, 25V
C859	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C860	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C861	VCQYKA1HM223K	AB			0.022 µF,50V,Mylar
C864	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C865	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C866	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C868	VCKYCY1CF105Z	AB			1 µF,16V
C869	VCKYCY1CF105Z	AB			1 µF,16V
C870	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C874	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C875	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C876	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C877	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C878	VCKYCY1HB104K	AB			0.1 µF,50V
C879	VCKYCY1HB104K	AB			0.1 µF,50V
C901	VCEAZA1HW224M	AB			0.22 µF,50V,Electrolytic
C902	VCEAZA1HW224M	AB			0.22 µF,50V,Electrolytic
C903	VCKYCY1HB102K	AA			0.001 µF,50V
C904	VCKYCY1HB102K	AA			0.001 µF,50V
C905	VCCCCY1HH3R0C	AA			3pF(CH),50V
C906	VCCCCY1HH3R0C	AA			3pF(CH),50V
C907	VCKYCY1HB471K	AA			470pF,50V
C908	VCKYCY1HB471K	AA			470pF,50V
C909	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C910	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C911	VCKYCY1EF223Z	AB			0.022 µF,25V
C912	VCKYCY1EF223Z	AB			0.022 µF,25V
C913	VCEAZA1JW107M	AC			100 µF,63V,Electrolytic
C914	VCEAZA1JW107M	AC			100 µF,63V,Electrolytic
C915	VCEAZA1JW106M	AB			10 µF,63V,Electrolytic
C916	VCEAZA1JW106M	AB			10 µF,63V,Electrolytic
C921	VCEAZW1VW228M	AH			2200 µF,50V,Electrolytic
C922	VCEAZW1VW228M	AH			2200 µF,50V,Electrolytic
C925	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C928	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C929	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C930	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C931	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C946	VCEAZA1HW104M	AB			0.1 µF,50V,Electrolytic
C960	VCEAZA1HW335M	AB			3.3 µF,50V,Electrolytic
CA3	VCCCCY1HH101J	AA			100pF(CH),50V
[8] RESISTORS					
FB704	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
J709	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP3	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP4	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP102	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP104	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP702	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP703	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP706	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP901	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green

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[8] RESISTORS					
JP902	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP903	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP904	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
L101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R1	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R2	VRS-CY1JB154J	AA			150 kohms,1/16W
R3	VRS-CY1JB334J	AA			330 kohms,1/16W
R4	VRS-CY1JB153J	AA			15 kohms,1/16W
R5	VRS-CY1JB473J	AA			47 kohms,1/16W
R6	VRS-CY1JB100J	AA			10 ohms,1/16W
R7	VRS-CY1JB223J	AA			22 kohms,1/16W
R8	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R9	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R10	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R11	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R14	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R15	VRD-ST2CD103J	AA			10 kohms,1/6W
R16	VRS-CY1JB123J	AA			12 kohms,1/16W
R17	VRD-ST2CD123J	AA			12 kohms,1/6W
R18	VRD-ST2CD103J	AA			10 kohms,1/6W
R19	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R20	VRS-CY1JB221J	AA			220 ohms,1/16W
R21	VRS-CY1JB101J	AA			100 ohms,1/16W
R22	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R23	VRS-CY1JB105J	AA			1 Mohms,1/16W
R24	VRS-CY1JB102J	AA			1 kohms,1/16W
R25	VRS-CY1JB102J	AA			1 kohms,1/16W
R26	VRD-ST2CD103J	AA			10 kohms,1/6W
R27	VRD-ST2CD221J	AA			220 ohms,1/6W
R28	VRD-ST2CD221J	AA			220 ohms,1/6W
R29	VRD-ST2CD221J	AA			220 ohms,1/6W
R30	VRD-ST2CD221J	AA			220 ohms,1/6W
R31	VRD-ST2CD221J	AA			220 ohms,1/6W
R32	VRD-ST2CD221J	AA			220 ohms,1/6W
R33	VRD-ST2CD221J	AA			220 ohms,1/6W
R34	VRS-CY1JB103J	AA			10 kohms,1/16W
R35	VRD-ST2CD101J	AA			100 ohms,1/6W
R36	VRD-ST2CD221J	AA			220 ohms,1/6W
R37	VRS-CY1JB103J	AA			10 kohms,1/16W
R38	VRS-CY1JB103J	AA			10 kohms,1/16W
R39	VRS-CY1JB101J	AA			100 ohms,1/16W
R40	VRS-CY1JB102J	AA			1 kohms,1/16W
R41	VRD-ST2CD102J	AA			1 kohms,1/6W
R42	VRD-ST2CD102J	AA			1 kohms,1/6W
R43	VRD-ST2CD102J	AA			1 kohms,1/6W
R44	VRD-ST2CD102J	AA			1 kohms,1/6W
R45	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R46	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R47	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R48	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R49	VRS-CY1JB102J	AA			1 kohms,1/16W
R50	VRS-CY1JB103J	AA			10 kohms,1/16W
R51	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R52	VRD-ST2CD271J	AA			270 ohms,1/6W
R53	VRS-CY1JB471J	AA			470 ohms,1/16W
R54	VRS-CY1JB102J	AA			1 kohms,1/16W
R55	VRS-CY1JB103J	AA			10 kohms,1/16W
R56	VRS-CY1JB103J	AA			10 kohms,1/16W
R92	VRS-CY1JB102J	AA			1 kohms,1/16W
R93	VRS-CY1JB473J	AA			47 kohms,1/16W
R95	VRD-ST2CD103J	AA			10 kohms,1/6W
R96	VRD-ST2CD103J	AA			10 kohms,1/6W
R107	VRS-CY1JB101J	AA			100 ohms,1/16W
R110	VRS-CY1JB274D	AA			270 kohms,1/16W
R113	VRS-CY1JB101J	AA			100 ohms,1/16W
R115	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R116	VRS-CY1JB562D	AA			5.6 kohms,1/16W
R117	VRS-CY1JB274D	AA			270 kohms,1/16W
R118	VRS-CY1JB102J	AA			1 kohms,1/16W
R119	VRS-CY1JB102J	AA			1 kohms,1/16W
R120	VRS-CY1JB104J	AA			100 kohms,1/16W
R121	VRS-CY1JB104J	AA			100 kohms,1/16W
R122	VRS-CY1JB104D	AA			100 kohms,1/16W
R123	VRS-CY1JB104D	AA			100 kohms,1/16W
R128	VRS-CY1JB104D	AA			100 kohms,1/16W
R129	VRS-CY1JB104D	AA			100 kohms,1/16W
R131	VRS-CY1JB154D	AA			150 kohms,1/16W
R132	VRS-CY1JB154D	AA			150 kohms,1/16W
R133	VRS-CY1JB154D	AA			150 kohms,1/16W
R134	VRS-CY1JB154D	AA			150 kohms,1/16W
R602	VRD-ST2CD102J	AA			1 kohms,1/6W
R603	VRD-ST2CD102J	AA			1 kohms,1/6W
R606	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R607	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R608	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R609	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R614	VRS-CY1JB333J	AA			33 kohms,1/16W
R615	VRS-CY1JB333J	AA			33 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R616	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R617	VRD-ST2CD222J	AA			2.2 kohms,1/6W
R618	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R619	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R620	VRS-CY1JB223J	AA			22 kohms,1/16W
R623	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R625	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R626	VRS-CY1JB474J	AA			470 kohms,1/16W
R627	VRS-CY1JB104J	AA			100 kohms,1/16W
R641	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R642	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R643	VRS-CY1JB103J	AA			10 kohms,1/16W
R644	VRS-CY1JB103J	AA			10 kohms,1/16W
R645	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R646	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R648	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R649	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R651	VRD-ST2CD222J	AA			2.2 kohms,1/6W
R652	VRD-ST2CD222J	AA			2.2 kohms,1/6W
R653	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R654	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R657	VRS-CY1JB103J	AA			10 kohms,1/16W
R658	VRS-CY1JB103J	AA			10 kohms,1/16W
R661	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R662	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R663	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R664	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R690	VRS-CY1JB153J	AA			15 kohms,1/16W
R691	VRS-CY1JB153J	AA			15 kohms,1/16W
R692	VRS-CY1JB273J	AA			27 kohms,1/16W
R693	VRS-CY1JB273J	AA			27 kohms,1/16W
R703	VRD-ST2CD102J	AA			1 kohms,1/6W
R704	VRD-ST2CD102J	AA			1 kohms,1/6W
R707	VRS-CY1JB681J	AA			680 ohms,1/16W
R708	VRS-CY1JB102J	AA			1 kohms,1/16W
R709	VRS-CY1JB102J	AA			1 kohms,1/16W
R711	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R712	VRS-CY1JB102J	AA			1 kohms,1/16W
R713	VRS-CY1JB221J	AA			220 ohms,1/16W
R717	VRS-CY1JB103J	AA			10 kohms,1/16W
R718	VRS-CY1JB102J	AA			1 kohms,1/16W
R719	VRD-ST2CD101J	AA			100 ohms,1/6W
R720	VRD-ST2CD102J	AA			1 kohms,1/6W
R722	VRS-CY1JB103J	AA			10 kohms,1/16W
R725	VRS-CY1JB223J	AA			22 kohms,1/16W
R728	VRS-CY1JB102J	AA			1 kohms,1/16W
R731	VRS-CY1JB221J	AA			220 ohms,1/16W
R732	VRD-ST2CD221J	AA			220 ohms,1/6W
R733	VRS-CY1JB221J	AA			220 ohms,1/16W
R734	VRD-ST2CD221J	AA			220 ohms,1/6W
R735	VRD-ST2CD102J	AA			1 kohms,1/6W
R736	VRD-ST2CD271J	AA			270 ohms,1/6W
R737	VRD-ST2CD102J	AA			1 kohms,1/6W
R738	VRD-ST2CD272J	AA			2.7 kohms,1/6W
R739	VRS-CY1JB103J	AA			10 kohms,1/16W
R741	VRD-ST2CD102J	AA			1 kohms,1/6W
R746	VRD-ST2CD473J	AA			47 kohms,1/6W
R751	VRD-ST2CD102J	AA			1 kohms,1/6W
R752	VRS-CY1JB102J	AA			1 kohms,1/16W
R753	VRS-CY1JB102J	AA			1 kohms,1/16W
R754	VRS-CY1JB102J	AA			1 kohms,1/16W
R755	VRS-CY1JB102J	AA			1 kohms,1/16W
R756	VRS-CY1JB102J	AA			1 kohms,1/16W
R757	VRS-CY1JB102J	AA			1 kohms,1/16W
R758	VRS-CY1JB102J	AA			1 kohms,1/16W
R759	VRS-CY1JB102J	AA			1 kohms,1/16W
R760	VRS-CY1JB102J	AA			1 kohms,1/16W
R761	VRS-CY1JB102J	AA			1 kohms,1/16W
R762	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R763	VRD-ST2EE181J	AA			180 ohms,1/4W
R764	VRS-CY1JB103J	AA			10 kohms,1/16W
R767	VRD-ST2CD102J	AA			1 kohms,1/6W
R770	VRD-ST2CD102J	AA			1 kohms,1/6W
R771	VRD-ST2CD102J	AA			1 kohms,1/6W
R772	VRD-ST2CD102J	AA			1 kohms,1/6W
R773	VRS-CY1JB102J	AA			1 kohms,1/16W
R774	VRS-CY1JB102J	AA			1 kohms,1/16W
R775	VRS-CY1JB102J	AA			1 kohms,1/16W
R776	VRS-CY1JB102J	AA			1 kohms,1/16W
R777	VRS-CY1JB102J	AA			1 kohms,1/16W
R778	VRS-CY1JB102J	AA			1 kohms,1/16W
R779	VRS-CY1JB102J	AA			1 kohms,1/16W
R780	VRS-CY1JB102J	AA			1 kohms,1/16W
R782	VRD-ST2CD102J	AA			1 kohms,1/6W
R783	VRD-ST2CD102J	AA			1 kohms,1/6W
R784	VRD-ST2CD102J	AA			1 kohms,1/6W
R785	VRS-CY1JB102J	AA			1 kohms,1/16W
R786	VRS-CY1JB102J	AA			1 kohms,1/16W
R787	VRS-CY1JB102J	AA			1 kohms,1/16W

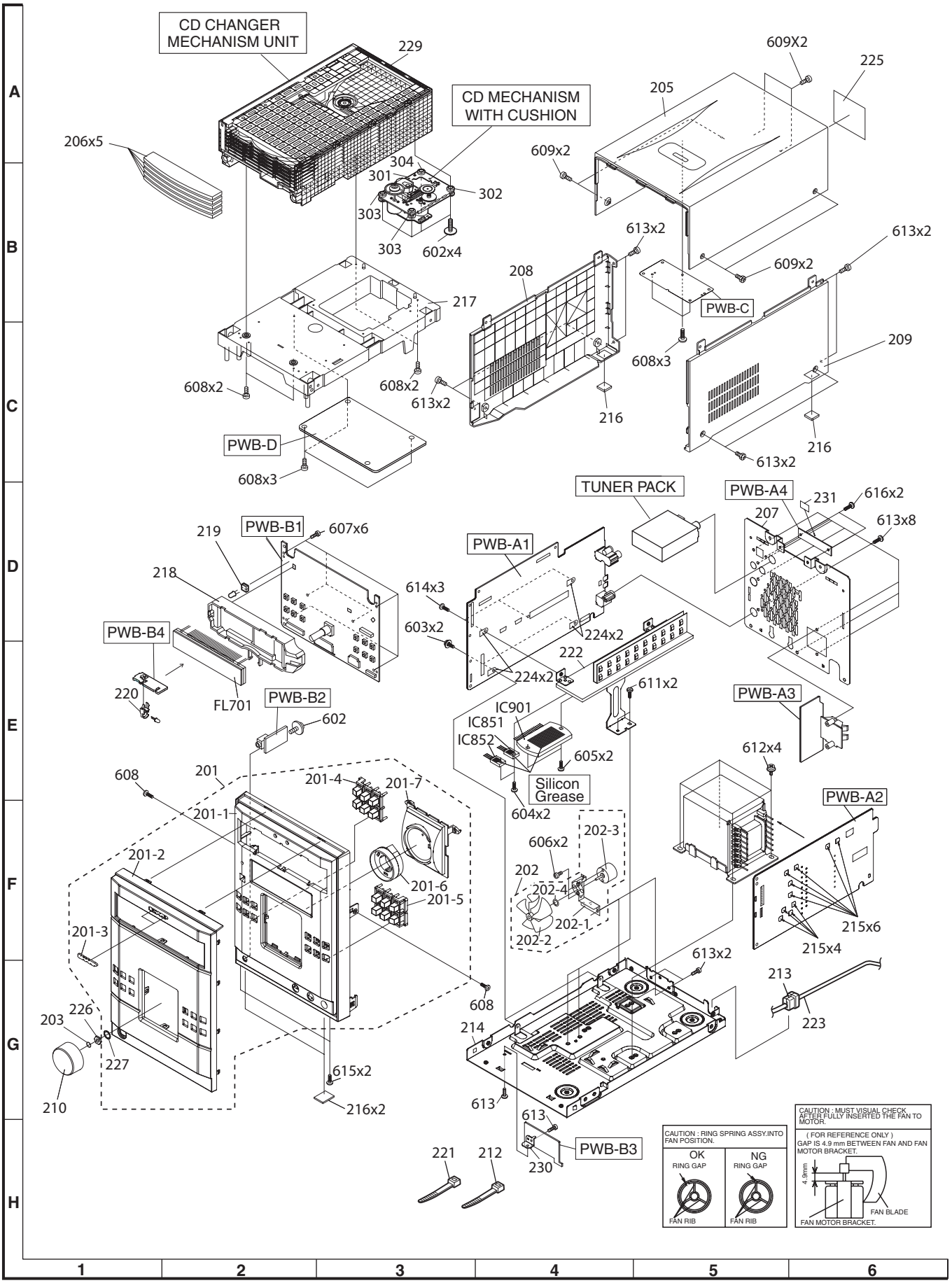
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R788	VRS-CY1JB102J	AA			1 kohms,1/16W
R789	VRD-ST2CD102J	AA			1 kohms,1/6W
R790	VRD-ST2CD102J	AA			1 kohms,1/6W
R791	VRD-ST2CD102J	AA			1 kohms,1/6W
R792	VRS-CY1JB102J	AA			1 kohms,1/16W
R793	VRS-CY1JB102J	AA			1 kohms,1/16W
R794	VRS-CY1JB102J	AA			1 kohms,1/16W
R795	VRD-ST2CD102J	AA			1 kohms,1/6W
R798	VRS-CY1JB103J	AA			10 kohms,1/16W
R799	VRD-ST2CD102J	AA			1 kohms,1/6W
R801	VRD-ST2CD563J	AA			56 kohms,1/6W
R802	VRD-ST2CD333J	AA			33 kohms,1/6W
R803	VRD-ST2CD123J	AA			12 kohms,1/6W
R804	VRD-ST2EE470J	AA			47 ohms,1/4W
R805	VRD-ST2EE470J	AA			47 ohms,1/4W
R806	VRD-ST2CD473J	AA			47 kohms,1/6W
R807	VRD-ST2EE101J	AA			100 ohms,1/4W
R808	VRD-RT2HD222J	AA			2.2 kohms,1/2W
R841	VRD-ST2CD224J	AA			220 kohms,1/6W
R842	VRD-ST2CD102J	AA			1 kohms,1/6W
R843	VRD-ST2CD473J	AA			47 kohms,1/6W
R844	VRD-ST2EE820J	AA			82 ohms,1/4W
R853	VRS-CY1JB223J	AA			22 kohms,1/16W
R854	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R858	VRD-ST2CD221J	AA			220 ohms,1/6W
R860	VRS-CY1JB103J	AA			10 kohms,1/16W
R863	VRD-RT2HD3R3J	AA			3.3 ohms,1/2W
R864	VRD-ST2CD223J	AA			22 kohms,1/6W
⚠ R890	RR-HZA003AWZZ	AD			4.7 ohms,1/2W
R891	VRS-CY1JB331J	AA			330 ohms,1/16W
R892	VRD-ST2CD100J	AA			10 ohms,1/6W
R901	VRS-CY1JB563J	AA			56 kohms,1/16W
R902	VRS-CY1JB563J	AA			56 kohms,1/16W
R903	VRS-CY1JB102J	AA			1 kohms,1/16W
R904	VRS-CY1JB102J	AA			1 kohms,1/16W
R905	VRS-CY1JB821J	AA			820 ohms,1/16W
R906	VRS-CY1JB821J	AA			820 ohms,1/16W
R907	VRS-CY1JB563J	AA			56 kohms,1/16W
R908	VRS-CY1JB563J	AA			56 kohms,1/16W
R909	VRS-CY1JB102J	AA			1 kohms,1/16W
R910	VRS-CY1JB102J	AA			1 kohms,1/16W
R913	VRN-VV3AAR15J	AB			0.15 ohms,1W
R914	VRN-VV3AAR15J	AB			0.15 ohms,1W
R915	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R916	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R917	VRN-VV3DAR22J	AC			0.22 ohms,2W
R918	VRN-VV3DAR22J	AC			0.22 ohms,2W
R919	VRN-VV3DAR22J	AC			0.22 ohms,2W
R920	VRN-VV3DAR22J	AC			0.22 ohms,2W
⚠ R921	VRG-ST2EC101J	AB			100 ohms,1/4W,Fusible
⚠ R922	VRG-ST2EC101J	AB			100 ohms,1/4W,Fusible
R923	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R924	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R925	VRD-ST2CD223J	AA			22 kohms,1/6W
R927	VRD-ST2EE223J	AA			22 kohms,1/4W
R928	VRD-ST2EE223J	AA			22 kohms,1/4W
R935	VRD-ST2CD563J	AA			56 kohms,1/6W
R936	VRD-ST2CD563J	AA			56 kohms,1/6W
R937	VRS-CY1JB563J	AA			56 kohms,1/16W
R940	VRD-ST2EE4R7J	AA			4.7 ohms,1/4W
R941	VRD-ST2EE4R7J	AA			4.7 ohms,1/4W
R942	VRD-RT2HD681J	AA			680 ohms,1/2W
R943	VRD-RT2HD681J	AA			680 ohms,1/2W
R946	VRS-CY1JB473J	AA			47 kohms,1/16W
R944	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R945	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R947	VRD-ST2CD153J	AA			15 kohms,1/6W
R949	VRS-CY1JB102J	AA			1 kohms,1/16W
R950	VRS-CY1JB683J	AA			68 kohms,1/16W
R956	VRD-ST2CD102J	AA			1 kohms,1/6W
R957	VRD-RT2HD681J	AA			680 ohms,1/2W
⚠ R958	VRD-RT2HD681J	AA			680 ohms,1/2W
R961	VRS-CY1JB333J	AA			33 kohms,1/16W
R962	VRS-CY1JB102J	AA			1 kohms,1/16W
R965	VRD-RT2HD822J	AA			8.2 kohms,1/2W
R966	VRD-RT2HD822J	AA			8.2 kohms,1/2W
R968	VRD-RT2HD681J	AA			680 ohms,1/2W
R974	VRS-CY1JB102J	AA			1 kohms,1/16W
R977	VRD-ST2CD153J	AA			15 kohms,1/6W
RA5	VRS-CY1JB470J	AA			47 ohms,1/16W
RA14	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RA15	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RA16	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RD01	VRS-CY1JB182J	AA			1.8 kohms,1/16W
RD02	VRD-ST2CD222J	AA			2.2 kohms,1/6W
RD03	VRD-ST2CD332J	AA			3.3 kohms,1/6W
RD04	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RD05	VRS-CY1JB103J	AA			10 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
RD06	VRS-CY1JB182J	AA			1.8 kohms,1/16W
RD07	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD08	VRS-CY1JB182J	AA			1.8 kohms,1/16W
RD09	VRD-ST2CD222J	AA			2.2 kohms,1/6W
RP745	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RP746	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RP747	VRD-ST2CD102J	AA			1 kohms,1/6W
RP748	VRD-ST2CD102J	AA			1 kohms,1/6W
RP749	VRD-ST2CD102J	AA			1 kohms,1/6W
RP750	VRD-ST2CD102J	AA			1 kohms,1/6W
RP752	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
RP753	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
RP755	VRS-CY1JB103J	AA			10 kohms,1/16W
RP757	VRS-CY1JB104J	AA			100 kohms,1/16W
RP758	VRS-CY1JB224J	AA			220 kohms,1/16W
RP761	VRD-ST2CD103J	AA			10 kohms,1/6W
RP762	VRS-CY1JB103J	AA			10 kohms,1/16W
RP763	VRS-CY1JB151J	AA			150 ohms,1/16W
RP767	VRD-ST2EE331J	AA			330 ohms,1/4W
RP768	VRD-ST2CD333J	AA			33 kohms,1/6W
RP770	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RP771	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RP772	VRD-ST2CD272J	AA			2.7 kohms,1/6W
RP773	VRD-ST2CD272J	AA			2.7 kohms,1/6W
RP774	VRS-CY1JB103J	AA			10 kohms,1/16W
RP776	VRS-CY1JB103J	AA			10 kohms,1/16W
RP777	VRD-ST2CD103J	AA			10 kohms,1/6W
RP778	VRD-ST2CD103J	AA			10 kohms,1/6W
RP779	VRS-CY1JB272J	AA			2.7 kohms,1/16W
[9] OTHER CIRCUITRY PARTS					
Bi101	QCNWNA849AWPZ	AM			Connector Ass'y,13 / 13 Pin
Bi601	QCNWNA587AWPZ	AH			Connector Ass'y,9 / 10 Pin
Bi701	QCNWNA056AWPZ	AF			Connector Ass'y,6 / 7 Pin
Bi702	QCNWN2715AWPZ	AG			Connector Ass'y,9 / 8 Pin with CNS702
Bi703	QCNWNA848AWPZ	AC			Flat Wire, 2 Pin
Bi801	QCNWNA847AWPZ	AM			Connector Ass'y,10 / 11 Pin
Bi902	QCNWNA551AWPZ	AF			Connector Ass'y,4 / 5 Pin
CNB1	QCNCWZO11AWZZ	AC			Socket,11 Pin
CNP1	QCNCWYP16AWZZ	AD			Socket,16 Pin
CNP2	QCNCM705FAFZZ	AB			Plug,6 Pin
CNP3	QCNCWZY12AWZZ	AC			Socket,12 Pin
CNP4	QCNCWZX11AWZZ	AC			Socket,11 Pin
CNP5	92LCONE9P53254	AD			Plug,9 Pin
CNP6	QCNCWZY10AWZZ	AC			Socket,10 Pin
CNP101	QCNCWA046AW30	AQ			Socket,30 Pin
CNP301	QCNCWZX09AWZZ	AC			Socket,9 Pin
CNP701A	QCNCWZX17AWZZ	AD			Socket,17 Pin
CNP701B	QCNCWZY17AWZZ	AD			Socket,17 Pin
CNP702	QCNCWZY10AWZZ	AC			Socket,10 Pin
CNP703	92LCONE2P53253	AB			Plug,2 Pin
CNP705	QCNCWZY12AWZZ	AC			Socket,12 Pin
CNP708	QCNCW012EAWZZ	AC			Socket,12 Pin
CNP801	QCNCM035KAWZZ	AC			Plug, 10 Pin
CNP802	92LCONE6P53253	AC			Plug,6 Pin
⚠ CNP805	QCNCM049BAWZZ	AC			Plug,2 Pin
CNP902	QCNCM035DAWZZ	AC			Socket,4 Pin
CNP971	92LCONE2P53253	AB			Plug,2 Pin
CNPU1	92LCONE8P53254	AC			Plug,8 Pin
CNPU2	92LCONE8P53254	AC			Plug,8 Pin
CNPU3	QCNCWYG12AWZZ	AD			Plug,12 Pin
CNPU4	QCNCWYH12AWZZ	AD			Plug,12 Pin
CNPU5	92LCONECP53254	AD			Plug,12 Pin
CNS2A	QCNWNA750AWPZ	AG			Connector Ass'y,6 Pin with CNS2B
CNS971	QCNWNA057AWPZ	AC			Connector Ass'y,2 Pin (FAN WIRE)
⚠ F801	QFS-D322BSJNi	AC			Fuse,3.15A,125V
⚠ F802	QFS-D322BSJNi	AC			Fuse,3.15A,125V
⚠ F803	QFS-D202BSJNi	AB			Fuse,2A,125V
⚠ F804	QFS-D202BSJNi	AB			Fuse,2A,125V
⚠ F805	QFS-D162BSJNi	AE			Fuse,1.6A,125V
FFC1	QCNWN2700AWPZ	AE			Flat Cable,16 Pin
FFC4	QCNWN2701AWPZ	AD			Flat Cable,11Pin
FFC301	QCNWNA844AWPZ	AC			Flat Cable,9 Pin
FFC701	QCNWNA753AWPZ	AE			Flat Cable,21 Pin
FFC702	QCNWNA810AWPZ	AD			Flat Cable,10 Pin
FFC705	QCNWNA758AWPZ	AE			Flat Cable,12 Pin
⚠ FH801	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH802	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH803	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH804	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH805	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH806	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH807	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH808	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH809	92LFSHOLD1652T	AB			Fuse Holder
⚠ FH810	92LFSHOLD1652T	AB			Fuse Holder

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] OTHER CIRCUITRY PARTS					
FL701	VVKNA12MM54-1	AU			FL Display
FW901	QCNWNA277AWPZ	AC			Flat Wire, 5 Pin
JK690	QSOCJ0224AWZZ	AC			Socket, VIDEO / AUX IN
JK691	QSOCJ0120AWZZ	AD			RCA Jack
JK701	QJAKM0004AWZZ	AK			Headphone Jack
JK953	QSOCJA010AWZZ	AC			Socket, Sub Woofer Pre Out
LG2	QLUGPA001AWZZ	AC			Lug Terminal
LG3	QLUGPA001AWZZ	AC			Lug Terminal
LG4	QLUGPA001AWZZ	AC			Lug Terminal
LG5	QLUGPA001AWZZ	AC			Lug Terminal
LUG1	QCNWNA863AWPZ				Lug Wire
⚠ RL841	RRLYDA002AWZZ	AF			Relay,Power
⚠ RL914	RRLYD0016AWZZ	AH			Relay
RX701	VHLK2013TH2E1	AG			Remote Sensor
SO901	QTANA0423AWZZ	AE			Speaker Jack
SW701	92LSWICHT1663T	AC			Switch,Key Type [DISC 4]
SW702	92LSWICHT1663T	AC			Switch,Key Type [DISC 5]
SW703	92LSWICHT1663T	AC			Switch,Key Type [OPEN/CLOSE]
SW704	92LSWICHT1663T	AC			Switch,Key Type [DISC 1]
SW705	92LSWICHT1663T	AC			Switch,Key Type [DISC 2]
SW706	92LSWICHT1663T	AC			Switch,Key Type [DISC 3]
SW707	92LSWICHT1663T	AC			Switch,Key Type [POWER ON/STAND-BY]
SW708	92LSWICHT1663T	AC			Switch,Key Type [PLAY/REPEAT]
SW709	92LSWICHT1663T	AC			Switch,Key Type [STOP]
SW710	92LSWICHT1663T	AC			Switch,Key Type [VIDEO/AUX]
SW711	92LSWICHT1663T	AC			Switch,Key Type [TUNER / XM]
SW712	92LSWICHT1663T	AC			Switch,Key Type [CD]
TP1	RTUNSA012AWZZ	AZ			Tuner Pack
VR701	QSW-ZA001AWZZ	AE			Volume (Jog type)
WIRE B	QCNWN2593AWZZ	AB			Single Wire,White,80mm
WTM901	QCNCW019EAWZZ	AB			Socket, 5 Pin

-MEMO-

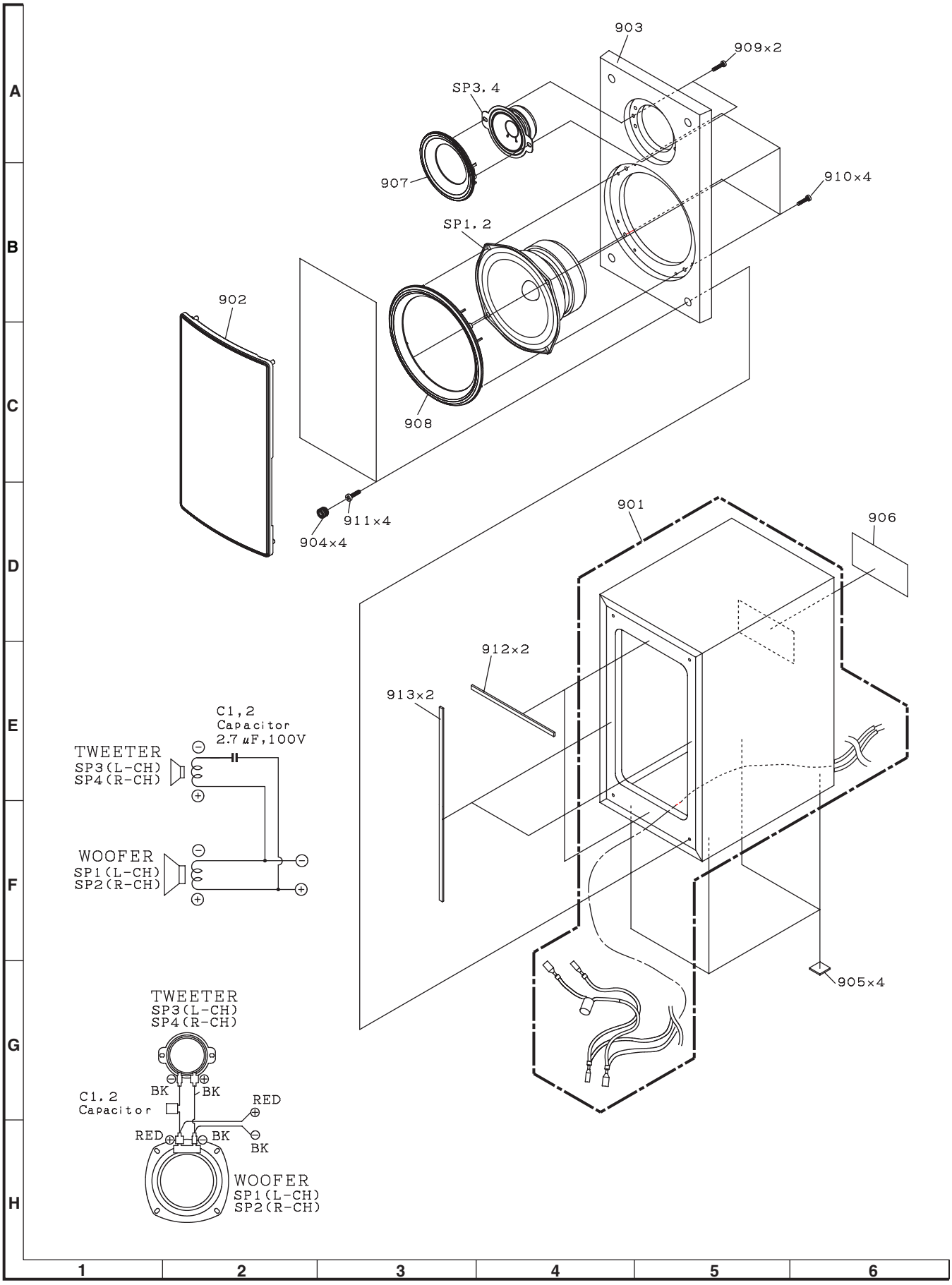
[10] CABINET PARTS / CD MECHANISM PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] CABINET PARTS / CD MECHANISM PARTS					
201	CCABA6896AW01	AX			Front Panel Ass'y
201-1	----------	-			Front Panel
201-2	HDECQA392AWSA	AM			Panel, FL Display
201-3	HBDGB1001AWSA	AD			Badge, SHARP
201-4	JKNBZA182AWSA	AE			Button, Function, A
201-5	JKNBZA183AWSA	AE			Button, Disc No.
201-6	HDECQA242AWSA	AD			Indicator, Volume Knob
201-7	HDECQA241AWSA	AH			Decoration, Panel
202	----------	-			Fan Motor Ass'y
202-1	LANGK0434AWFW	AF			Bracket, Fan Motor
202-2	NFANP0001AWZZ	AD			Rotary, Fan
202-3	RMOTVA015AWZZ	AH			Motor, Air Cooling Fan (M971)
202-4	92LCSPR1431C	AA			Spring, Ring
203	92LCSPR1431C	AA			Spring, Ring
205	GCAB-A052AWSB	AS			Top Cabinet
206	GCOVAA137AWSA	AD			Disc Tray Cover
207	GiTARA457AWSA	AL			Rear Panel [For America]
207	GITARA461AWSA	AL			Rear Panel [For Canada]
208	GiTASA140AWSB	AL			Side Panel, Left
209	GiTASA141AWSB	AL			Side Panel, Right
210	JKNBKA021AWSA	AM			Knob, VOLUME
212	LBND-1011AWZZ	AA			Nylon Band
⚠ 213	LBSHC0005AWZZ	AD			Bushing, AC Power Supply Cord
214	LCHSMA071AWFW	AP			Chassis, Main
⚠ 215	92LFSHOLD1652T	AB			Holder, Fuse
216	PCUSG0022AWZZ	AB			Cushion, Leg
217	LCHSZA010AWZZ	AN			Chassis, Changer Unit
218	LHLDZ9024AWZZ	AD			Holder, FL Display
219	LHLDZA047AWZZ	AC			Holder, LED
220	LHLDZA122AWZZ	AC			Holder, LED
221	92LNBAND1318A	AA			Nylon Band, 80mm
222	PRDARA154AWFW	AR			Heat Sink, Main
⚠ 223	QACCDA002AWZZ	AN			AC Power Supply Cord
224	QLUGPA001AWZZ	AC			Lug (LG2-5)
225	TSPC-A800AWZZ	AD			Label, Specification [For America]
225	TSPC-A801AWZZ	AD			Label, Specification [For Canada]
226	----------	-			Nut (Not Replacement Item)
227	----------	-			Washer (Not Replacement Item)
229	CDCMECA6663SRC	BK			Changer Mechanism Unit
230	LANGT0042AWFW	AC			Bracket, PWB Support
231	PSHEPA091AWZZ	AB			Sheet, PC
301	KMECZA004AWZZ	AB			CD Mechanism Unit
302	PCUSG0004AWSA	AD			Cushion
303	PCUSGA099AWSA	AC			Cushion
304	PCUSG0001AWSA	AD			Cushion
602	LX-EZ0005AWF7	AB			Screw, Special
603	LX-JZ0010AFF7	AB			Screw, M3 X10mm
604	LX-JZ0036AWF7	AC			Screw, Special
605	LX-JZ0037AWF7	AC			Screw, Special
606	XBBY720P04000	AA			Screw, M2 X4mm
607	XEBY726P10000	AA			Screw, M2.6 X10mm
608	XEBY730P10000	AA			Screw, M3 X10mm
609	XEBY730P12000	AA			Screw, M3 X12mm
610	LX-JZA019AWF7	AB			Screw, Special
611	XHBY730P06000	AB			Screw, M3 X6mm
612	XHBY740P06000	AB			Screw, M4 X6mm
613	XJBY730P10000	AA			Screw, M3 X10mm
614	XJBY830P08000	AB			Screw, M3 X8mm
615	XJSY730P10000	AA			Screw, M3 X10mm
616	XJBY730P06000	AA			Screw, M3 X6mm

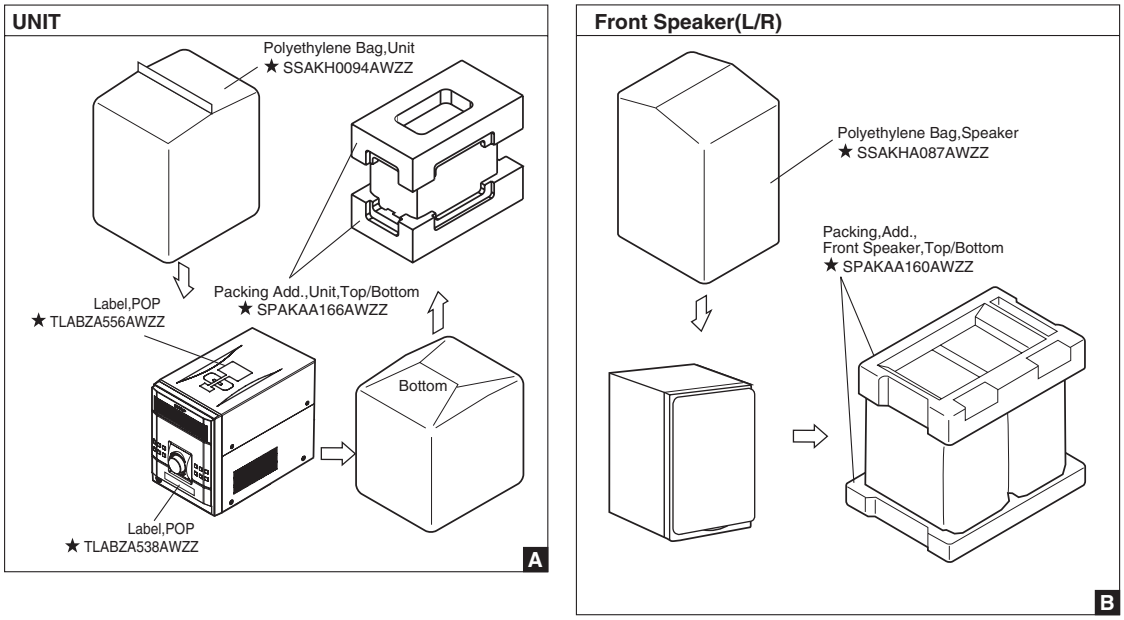
NOTE: FOR CD MECHANISM PARTS, ITEM NO. ARE 3XX

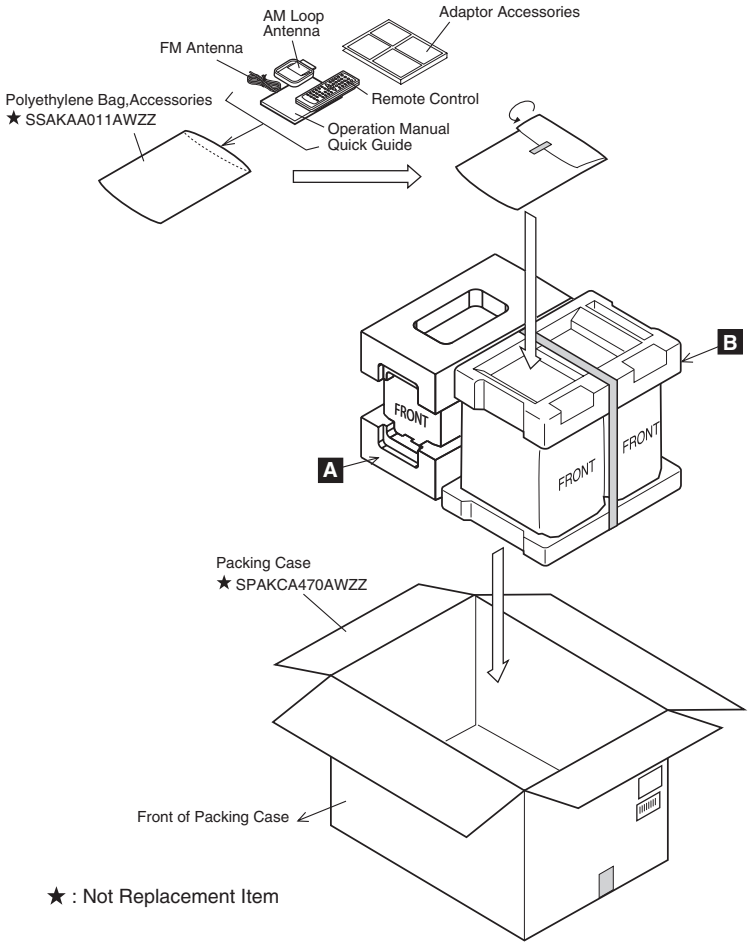
[11] SPEAKER BOX PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] SPEAKER BOX PARTS					
901	GBOXSA166AW01	BP			Wooden Box Ass'y
902	CWAKPA010AW05	AS			Net Frame Ass'y
903	GITASA172AWSC	BC			Front Board
904	LHLDZ8002AWSB	AF			Catching Holder
905	PCUSGA020AWZZ	AB			Cushion, Leg
906	TSPC-A778AWZZ	AC			Label, Specification
907	HDECQA355AWSC	AH			Tweeter Ring
908	HDECQA354AWSC	AK			Woofer Ring
909	XEBY730P14000	AB			Screw, M3 x 14mm
910	XEMY835P14000	AC			Screw, M3.5 x 14mm
911	XMBY840P20000	AC			Screw, M4 x 20mm
912	PCUSSA057AWZZ				Cushion, Top/Bottom
913	PCUSSA058AWZZ				Cushion, Side
SP1,2	RSP-ZA257AWZZ	AZ			Woofer
SP3,4	RSP-ZA256AWZZ	AT			Tweeter
[12] ACCESSORIES / PACKING PARTS					
	92LFANT1535A	AF			FM Antenna
	QANTL0010AWZZ	AP			AM Loop Antenna
	RRMCGA133AWSA	AR			Remote Control
	TINSEA191AWZZ	AF			Operation Manual [For America]
	TINSZA282AWZZ	AD			Quick Guide [For America]
	TINSKA029AWZZ				Operation Manual [For Canada]
	UACRTA008AW01	AP			Adaptor Accessories
[13] P.W.B. ASSEMBLY (Not Replacement Item)					
⚠ PWB-A	92LPWB6895MANS	-			Main A1 / Power A2 / Speaker A3 / Transit iPod A4
PWB-B	92LPWB6894DPLS	-			Display B1 / Headphone B2 / Reflash B3 / Volume LED B4
PWB-C	92LPWB6894PODS	-			iPod
PWB-D	92LPWB6894CDUS	-			CD MP3
[14] OTHER SERVICE PARTS					
	UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

PACKING METHOD (FOR U.S.A. ONLY)





★ : Not Replacement Item

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

SHARP

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